

The University of Southern Mississippi



Graduate
Bulletin 1982-83

GRADUATE PROGRAMS

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Graduate Programs 1982-1983

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SUMMER SESSION 1982

Hattiesburg Campus

- Tuesday, May 11
Deadline for making application for admission
- Friday, May 28
Registration by appointment
Orientation for freshmen and transfer students
Only day to register for full or first term
courses without late fee.
- Monday, May 31
8:00 a.m. Classes begin
1:30 p.m. Late registration begins
6:30-9:15 p.m. Night classes meet at regularly scheduled times
- Thursday, June 3
6:30-8:00 p.m. Last day for registering or adding first term (q) courses
- Tuesday, June 8
Last day for registering or adding full term courses
Last day for dropping first term (q) courses
- Friday, June 25
Last day for dropping full term courses without academic penalty
- Friday, July 2
End of first term (q) courses
- Monday, July 5
Registration for second term (qq) courses begin
- Wednesday, July 7
Last day for registering or adding second term (qq) courses
- Monday, July 12
Last day for dropping second term (qq) courses
- Friday, August 6
Last day of regularly scheduled classes
- Monday-Thursday, August 9-12
Summer session examinations
- Friday, August 13
Commencement

FALL SEMESTER 1982

Hattiesburg Campus

Friday, August 6, 1982

Deadline for making application for admission

Saturday, August 28

Dormitories open for students with definite
room assignments

Sunday, August 29

Dormitories open for all other students

1:00 p.m. Registration by appointment

Monday, August 30

Registration continues

Orientation for freshmen and transfer students
who did not attend summer orientation

Placement tests for new students

Tuesday, August 31

Registration continues

Wednesday, September 1

8:00 a.m. Classes begin

2:00 p.m. Late registration begins

6:30-9:15 p.m. Night classes meet at regularly scheduled times

Thursday, September 2

Change of schedule begins

Monday, September 6

Labor Day Holiday (night classes will meet)

Thursday, September 9

Last day for registering or adding courses

Thursday, October 7

Last day for dropping a course

Wednesday, October 29

Midpoint in Fall Semester

End of first term (q) courses

Thursday, October 21

Second term (qq) courses begin

Tuesday, November 23

9:15 p.m. Thanksgiving holidays begin (night classes will meet)

Monday, November 29

8:00 a.m. Classes resume

Friday, December 10

Last day of regularly scheduled classes

Monday-Friday, December 13-17

Fall Semester examinations

Saturday, December 18

12:00 noon Dormitories close for Christmas holidays

SPRING SEMESTER 1983

Hattiesburg Campus

Friday, December 17, 1982

Deadline for making application for admission

Wednesday, January 12

Dormitories open

Thursday, January 13

Registration by appointment

Friday, January 14

Registration continues

Monday, January 17

8:00 a.m. Classes begin

2:00 p.m. Late registration begins

Tuesday, January 18

Change of schedule begins

Friday, January 21

Last day to file application for undergraduate and
graduate degrees for May graduation

Tuesday, January 25

Last day to register or add courses

Monday, February 21

Last day to drop a course

Friday, March 11

Midpoint in Spring Semester

End of first term (q) courses

6:00 p.m. Spring vacation begins

Monday, March 21

8:00 a.m. Classes resume

Second term (qq) courses begin

Wednesday, March 30

USM Day

Thursday, March 31

9:15 p.m. Easter holiday begins

Monday, April 4

6:30 p.m. Monday night classes meet

Tuesday, April 5

8:00 a.m. Day classes resume

Friday, May 6

Last day of regularly scheduled classes

Last day to file application for undergraduate and
graduate degrees for August graduation

Monday-Friday, May 9-13

Examinations

Friday, May 13

Commencement

SUMMER SESSION 1983

| | |
|-----------------------------|--|
| Tuesday, May 10 | Deadline for making application for admission |
| Friday, May 27 | Registration by appointment Orientation for freshmen and transfer students Only day to register for full or first term (q) courses without late fee |
| Monday, May 30 | |
| 8:00 a.m. | Classes begin |
| 2:00 p.m. | Late registration begins |
| Tuesday, May 31 | Change of schedule begins |
| Thursday, June 2 | Last day for registering or adding first term (q) courses |
| Tuesday, June 7 | Last day for registering or adding full term courses Last day for dropping first term (q) courses |
| Friday, June 24 | Last day for dropping full term courses |
| Friday, July 1 | End of first term (q) courses |
| Monday, July 4 | Independence Day Holiday (no classes) |
| Tuesday, July 5 | Registration for second term (qq) courses begin |
| Thursday, July 7 | Last day for registering or adding second term (qq) courses |
| Friday, July 8 | |
| 6:30 p.m. | Monday night classes meet |
| Tuesday, July 12 | Last day for dropping second term (qq) courses |
| Monday, August 8 | Last day of regularly scheduled classes |
| 6:30 p.m. | Monday night examinations |
| Tuesday-Friday, August 9-12 | Examinations |
| Friday, August 12 | |
| 7:30 p.m. | Commencement |

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UNIVERSITY MISSION AND GOAL

The University of Southern Mississippi, located in the south central part of the state, is operated by the State of Mississippi as one of eight public universities. The University identifies its primary service area as the southern half of the state, although as a university, it is committed to serve the entire state with programs and services not available from other public educational institutions, with programs and services in which the University has specialized expertise, and with programs and services where the University is uniquely organized to fulfill existing needs. The University also believes that it should serve residents of other states and areas as far as possible within the limits of the law, financial resources, and physical facilities, and the University accepts the principle that a student body with divergent backgrounds is often desirable in creating an educational environment. In this belief and acceptance, the University sees itself as a regional institution.

However, while the University feels that it is accountable to all of its clientele for the highest quality possible in its programs and services, it acknowledges that by virtue of its being a state institution, it ultimately is responsible to the citizens of the State of Mississippi, their duly elected representatives, and their appointed representatives of legally constituted agencies.

The Purposes of the University

The fundamental purposes of the University of Southern Mississippi may be examined in terms of its major functions: teaching, research, and service.

Teaching

The broad area of teaching in all of its facets is, and shall continue to be, the primary purpose of the University. The administration, faculty, students, and general public must continually reaffirm this purpose as having the highest priority. Teaching must not only provide appropriate learning experiences, but also must motivate students to learn. The University recognizes that teaching must serve the needs of both individuals and society.

A. Individual Needs

1. To encourage learning based on rational inquiry, problem solving, challenge, creativity, and intellectual initiative;
2. To increase understanding and appreciation of the traditional, liberal, and cultural areas of human knowledge and experience;
3. To increase understanding of the applications of learning to further career goals;

B. Societal Needs

1. To prepare citizens who are capable of observing, understanding, and participating in society, and who can effectively challenge as well as support its activities and practices;
2. To prepare citizens who will actively endorse and practice the highest ideals of personal and professional integrity and competence;
3. To prepare citizens who can perform tasks needed by the society and pursue careers that are beneficial both to the individual and society.

The teaching function of the University can be expressed in terms of expected student outcomes. It is expected, as a result of the teaching of the University, that students should achieve the following competencies:

1. Knowledge of various kinds and insight into how to expand that knowledge and how to use it;
2. Mastery of the skills of communication;

3. Awareness of personal values, the values of others, and the interaction between the two;
4. Ability to work with others in study, in problem solving, and in various tasks undertaken;
5. Awareness of and interest in current events, issues, and problems;
6. Awareness of the desire to fulfill obligations and responsibilities as citizens in a democratic society;
7. Understanding and appreciation of the humanistic ideals implicit in a university education;
8. Career preparation that will qualify them for a useful and profitable role in society.

Research

Research is an important and vital function of the University. The University of Southern Mississippi affirms its importance and sees the role of research, both basic and applied, as an integral part of teaching. It should discover, extend, amplify, refine, and communicate knowledge. It provides motivation for learning; fosters a contemporary learning environment; and, in so doing, improves the learning experiences. It further complements teaching by providing depth, breadth, and application to the learning processes. To fulfill this purpose, the University feels that its research efforts must:

1. Contribute to the knowledge of man and to the teaching of man by the discovery, preservation, and dissemination of new knowledge;
2. Contribute to the knowledge of man and to the teaching of man by the extension, amplification, refinement, preservation, and dissemination of existing knowledge;
3. Provide students with opportunities to develop an appreciation of research and to learn the methodology of and application of research consistent with their chosen areas of specialization and career goals.

Service

The service function of the University should seek to incorporate its resources of knowledge, skills, and artistry into the mainstream of the society it serves; the University, through service, can become a viable influence toward enhancing the quality of the lives and life-long pursuits of its constituency. It shall attempt to fulfill this commitment by:

1. Providing, through continuing education programs, opportunities for independent study, special interests, informal educational activities, and formal educational experiences within conventional degree programs;
2. Providing for its clientele the acquisition and maintenance of the skills necessary to adjust to the rapidity of changes in the business and professional fields as well as in society in general;
3. Utilizing the unique resources of the University in developing new processes through which communities may develop more adequate patterns and mechanisms for building a quality environment;
4. Supplying the educational bridge between the University and the citizens of Mississippi by providing opportunities to Mississippians for their personal and professional growth and making the skills of research available for the rapid solution of local, state, and national problems.

In order for the University to realize its purposes within its unique setting, the following commitments will be necessary:

16/University Mission and Goal

1. To select faculty, undergraduate and graduate, primarily for its interest and expertise in high quality instruction but also for its interest in and ability to accomplish significant research and service;
2. To increase focus and attention upon the individual student;
3. To provide all necessary materials and equipment which will facilitate and expand personalized instruction;
4. To initiate and maintain a high degree of student motivation for learning;
5. To communicate values and to maintain balance between cognitive and affective learning;
6. To examine critically and systematically curricula, courses, course content, and methods, both at undergraduate and graduate levels, in order to determine if the needs and demands of our rapidly changing society are being met;
7. To coordinate the curricula of the University to avoid duplication and provide means for interdisciplinary instruction both at the undergraduate and graduate level;
8. To accumulate knowledge through personal and sponsored research done by undergraduate, graduate, advanced graduate students, and the faculty;
9. To emphasize the importance of producing, publishing, and utilizing knowledge gained through research;
10. To direct research activities which are oriented toward instruction and service;
11. To provide services to non-academic communities which are reasonable and practical extensions of instruction and research;
12. To maintain balance between the services provided and the basic education components of the University;
13. To improve relationships between the academic and nonacademic communities through the services provided;
14. To provide those student services and activities that are needed by students to attain desired educational outcomes and by the University to create and sustain an exciting, stimulating, and significant educational environment;
15. To provide coordination of effort and efficiency of operation within all areas of the University;
16. To provide the best library, laboratory, studio, and museum services possible within the resources of the University;
17. To provide physical facilities that will not only meet the academic and administrative needs of the University but will contribute to a proper educational environment;
18. To seek the financial support necessary for fulfilling the mission of the University at the lowest possible cost to students without sacrificing quality;
19. To make available quality graduate education in keeping with the role and nature of the University;
20. To provide an environment which encourages cultural aesthetic development;
21. To provide educational experiences in the arts and sciences.
22. To continue the strong emphasis on career education.

GRADE REVIEW POLICY

The instructor (defined as one who has the responsibility for a class, special problem, or thesis) has the authority in his class over all matters affecting the conduct of the class, including the assignment of grades. Student performance should be evaluated according to academic criteria made available to all students within the first two weeks of each semester. Grades should not be determined in an arbitrary or capricious manner.

When a student disagrees with the final grade given by an instructor, fair play requires the opportunity for an orderly appellate procedure. The procedure must assure due process for both the instructor and student.

The grade review policy shall consist of steps to initiate the process and principles to guide the procedures.

Steps

1. A student who is dissatisfied with a final grade must first attempt to negotiate a change in the final grade with the instructor teaching the course. If the instructor is not employed by the University at the time the student receives his final grade, the Vice President for Academic Affairs shall convene the University Grade Review Council to hear and decide the issue.
2. Should the decision of the instructor in Step 1 be unacceptable to the student, the student should secure the University's grade review form from the dean of the college or school for which the instructor is teaching and provide the information required. The student then takes this form to the department chairman of the instructor. The chairman, in separate and/or joint conference with the instructor and student, shall attempt to reach an agreement for a final grade. If the instructor is the department chairman, the student goes to Step 3.
3. Should department chairman be unable to resolve the matter to the satisfaction of all parties, the appeal may then be referred to the dean of the school or college in which the instructor teaches. The dean, in separate and/or joint conference with the instructor and student, shall attempt to reach an agreement for a final grade. If the dean is the instructor, the student goes to Step 4.
4. Should the reviewing dean be unable to resolve the matter to the satisfaction of all parties in Step 3, the matter may be appealed to the Vice President for Academic Affairs who shall convene the University Grade Review Council to hear and decide the issue.

Principles to Guide the Procedures

1. The student appealing a final grade must follow the steps prescribed above in the order enumerated.
2. The information for appeal must be written on or attached to a standard form and will serve as the basis for deliberation for each step. The student must start the appeal form, but it is the responsibility of each reviewing official (i.e., department chairman, dean, Vice President for Academic Affairs) to provide each party concerned with a copy of the appeal form showing the action taken.
3. A student must initiate the appeal procedure within thirty days into the next semester (counting Saturday and Sunday but excluding official student holidays) after the semester for which the grade was received or one hundred

twenty days after the issuance of spring semester grades, should the student not be enrolled during the summer term. Instructors should preserve material used for determining grades for the number of days stipulated above.

4. After Step 2 of the appeal process is initiated, it is the responsibility of the department chairman to request all pertinent documents and data from the student and faculty member involved for copying. Copies of this material will be provided each person involved, and originals will become part of the case file. The above material will include the grade book record. Also included will be student material retained by the faculty member and all material returned to the student by the faculty member if sufficiently pertinent to the final grade.
5. The student may have present and seek advice from a member of the Associated Student Body, an uninvolved instructor, or a lawyer. He must present his own case at the Council hearing.

Composition of Council

The University Grade Review Council shall consist of one tenured faculty member from each of the schools or colleges in the University, with the member being elected by the teaching faculty of his school or college, plus four appointed faculty members. The Vice President for Academic Affairs shall choose the appointed faculty members to assure adequate minority representation. He shall appoint one tenured member from each of the following: College of Liberal Arts, College of Education and Psychology, College of Business Administration, and College of Science and Technology. The chairman shall be elected by the Council. If a member of the Council is involved in the grade dispute, he will step aside. A new member will be appointed by the Vice President for Academic Affairs from the college or school for which the instructor teaches.

Procedure of Council

The student will be allowed to present his case by offering evidence and calling witnesses [student(s) or instructor(s)]. The faculty member shall be allowed to do likewise if he desires. No plea is necessary, nor will guilt be implied. After all the evidence has been heard, the Council shall retire to discuss and vote on the matter. A simple majority vote of members present is necessary to change a disputed grade. The grade may be changed to satisfy the request of the student or to a grade considered appropriate by the committee with proper justification in writing.

Amendments to Procedures

Effective March 1, 1979: (From Minutes, University Grade Review Council, March 1, 1979) Formal letters of support must be written (typed) and submitted directly to the University Grade Review Council by the individual wishing to supply such supporting materials.

Effective April 4, 1979: (From Minutes, University Grade Review Council, April 4, 1979) Supporting witnesses may be present during the hearing only when they are making their statements.

Effective January 14, 1980: (From Minutes, University Grade Review Council, January 14, 1980) Any member of the executive committee of the Council may review an appeal prior to the hearing to determine whether or not the appeal is in compliance with Grade Review policies.

Effective June 26, 1980: (From Minutes, University Grade Review Council, June 26, 1980) The signature of the Dean of the Graduate School will be required for appeals of students in graduate classes.

Effective July 5, 1980: (From Minutes, University Grade Review Council, July 5, 1980) All documents presented to the Council will become a part of the official record and will not be returned.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

(Buckley Amendment)

The Buckley Amendment deals with one subject only: educational records. The purpose of the law is to define, more precisely than ever has been done, who may or may not see them. On the one hand, the law grants students guaranteed access; on the other hand, it takes from the universities the privilege of indiscriminate disclosure.

The Buckley Amendment sets forth these main requirements:

- (1) it allows a student access to each educational record that a university or college keeps on him/her;
- (2) it requires the institution to establish a policy on how students can go about seeing specific records;
- (3) it requires the institution to inform all students as to what rights they have under the Amendment, how they can act on these rights according to school policy, and how they can see a copy of the policy; and
- (4) it requires the institution to seek student permission, in writing, before disclosing any personally identifiable record to individuals other than professional personnel employed in the university or college (and others who meet certain specified requirements).

The University has developed and put into writing a policy for handling requests from students and for disclosing personally identifiable information about students. Students are notified at least once a year of their rights under the law by publishing the University policy in the student newspaper.

RETENTION OF STUDENTS AND PROGRAM COMPLETION INFORMATION

The Office of Admissions will provide, upon request, information regarding student retention as well as the number and percentage of students completing specific graduate programs at the University of Southern Mississippi. For further information, please contact:

Director of Admission
Box 5011, Southern Station
University of Southern Mississippi
Hattiesburg, Mississippi 39406—5011
(601) 266-7111

THE GRADUATE SCHOOL

The Graduate School at the University of Southern Mississippi was established in 1947 to recognize the University's growing responsibilities as a center of higher learning, and to provide an academic environment in which advanced research and free inquiry could develop to the advantage of both the student and the State. In the years since 1947, the University's graduate programs have developed logically on the growing points of strong undergraduate schools and departments to meet the needs for professional competence beyond the academic measure of the baccalaureate degree.

In response to the need to offer graduate programs beyond the boundaries of the Hattiesburg Campus, the Board of Trustees in 1972 authorized the University to grant graduate degrees on the campuses at the University of Southern Mississippi—Gulf Park and the University of Southern Mississippi—Natchez. Course work taken at the Hattiesburg, Gulf Park, and Natchez campuses is considered as campus work.

The Graduate School's Place Within the University Structure

The Graduate School is administered by a dean executing policies determined by the Graduate Council of which the Dean of the Graduate School serves as chairman.

The present composition of the Graduate Council includes the Dean of the Graduate School as chairman with two representatives from the College of Education and Psychology and one representative each from the College of Business Administration, the College of Fine Arts, the School of Health, Physical Education, and Recreation, the School of Home Economics, the College of Liberal Arts, the School of Library Service, the School of Nursing, the College of Science and Technology, the School of Social Work, and a member of the graduate student body. Council members are appointed by the President of the University upon the recommendation of the Committee on Committees. Permanent *ex officio* members are the President of the University and the University Librarian. The University Registrar serves as secretary to the Council.

The responsibilities of the Graduate Council, representing both administration and faculty, include:

1. Determining policies of admission to the Graduate School.
2. Considering and approving graduate programs submitted to the Council through curriculum committees of each college and school.
3. Electing members of the Graduate Faculty upon recommendation by the academic deans.
4. Approving new courses (and deleting courses) for graduate credit.
5. Acting upon any other problems affecting graduate programs.

The graduate programs approved by the Council are carried out through the Graduate Faculty in each degree-granting college or school of the University's academic organization.

DEGREE PROGRAMS OFFERED*

The University of Southern Mississippi offers graduate level programs in nearly every recognized academic discipline. Even those departments not yet ready to offer master's or doctoral degrees are usually equipped to offer a graduate minor. In addition, master's degrees are offered at USM—Gulf Park and at USM—Natchez. For specific information about the master's programs at Gulf Park and Natchez, please see their section in this **Bulletin**.

The degrees which are offered and their majors are listed below. Refer to each department for emphasis areas.

*Please note that degree offerings sometimes change because of changes in curricula. Those listed in this **Bulletin** are those granted as of the 1982-1983 academic year.

DEGREES OFFERED

DOCTOR OF EDUCATION

Education
Health, Physical Education,
and Recreation
Science Education

DOCTOR OF PHILOSOPHY

| | |
|---|--------------------|
| Biology | Music Education |
| Chemistry | Political Science |
| Communication | Polymer Science |
| Counseling Psychology | Psychology |
| Education | Science Education |
| English | Speech and Hearing |
| Health, Physical Education, and Recreation | Sciences |
| History | |

DOCTOR OF MUSIC EDUCATION

Music Education

DOCTOR OF MUSICAL ARTS

Performance and Pedagogy

MASTER OF PHILOSOPHY

| | |
|------------------------|-------------------|
| Biology | Microbiology |
| Communication | Political Science |
| Comparative Literature | Polymer Science |

SPECIALIST IN EDUCATION

| | |
|----------------------------|---------------------------|
| Adult Education | Home Economics Education |
| Business Education | Industrial and Vocational |
| Counseling and Guidance | Education |
| Educational Administration | Music Education |
| and Supervision | Physical Education |
| Educational Curriculum | Reading |
| and Instruction | Science Education |
| Educational Media and | Special Education |
| Technology | |
| Educational Research | |

SPECIALIST IN ENGLISH

English

SPECIALIST IN HISTORY

History

MASTER OF ART EDUCATION

Art Education

MASTER OF ARTS

| | |
|------------------------|-------------------|
| Anthropology | Philosophy |
| Communication | Political Science |
| Comparative Literature | Psychology |

Criminal Justice
Economics
English
Geography
German
History

Public Relations
Sociology
Spanish
Speech and Hearing
Sciences
Theatre

MASTER OF BUSINESS ADMINISTRATION

Business Administration

MASTER OF EDUCATION

Adult Education
Business Education
Counseling and Personal Services
Educational Administration
and Supervision
Educational Curriculum and Instruction
Educational Media and
Technology

Science Education
Special Education

Secondary Education
Special Education

MASTER OF FINE ARTS

Drawing and Painting

Theatre

MASTER OF LIBRARY SCIENCE

Library Science

MASTER OF MUSIC

Music

MASTER OF MUSIC EDUCATION

Music Education

MASTER OF PROFESSIONAL ACCOUNTANCY

Accounting

MASTER OF SCIENCE

Anthropology
Biology
Business Education
Chemistry
Child Development
Communication
Community Health Nursing
Computer Science
Counseling and Personnel Services
Counseling Psychology
Criminal Justice
Economic Development
Economics
Educational Curriculum
and Instruction
English
Family Living
Geography
Geology
German
Health Education
History

Home Economics Education
Industrial and Vocational Education
Institution Management
Mathematics
Medical Technology
Microbiology
Nursing Service Administration
Physical Education
Physics
Political Science
Polymer Science
Psychiatric Nursing
Psychology
Public Relations
Reading
Recreation
Research and Evaluation
Science Education
Spanish
Speech and Hearing Sciences
Statistics
Teleprocessing Science

MASTER OF SOCIAL WORK

Social Work

UNIVERSITY PRESS OF MISSISSIPPI

The University Press of Mississippi was founded in 1970 to encourage the dissemination of the fruits of research and study through the publication of scholarly works. Functioning as the scholarly publishing arm of the state-supported universities in Mississippi, the University Press is governed by a Board of Directors made up of one representative from each of the eight universities, one representative from the Board of Trustees of State Institutions of Higher Learning, and the Director of the Press.

The University Press publishes between ten and twenty books each year. Primary areas of interest are Mississippi history and literature, but manuscripts in all areas of study are welcomed.

Administrative offices of the University Press are located in the Education and Research Center of Mississippi, 3825 Ridgewood Road, Jackson, Mississippi.

INSTITUTE OF ANGLO-AMERICAN STUDIES

The Institute of Anglo-American Studies is an administrative entity under the Office of the Vice-President for Academic Affairs. Its goal is to promote a more profound understanding of Anglo-American culture through curriculum development and teaching, faculty development, library development, research, scholarly publications, and public service. The Institute is administered by a director and a council composed of representatives from participating academic departments at USM.

The activities of the Institute are anchored on an annual summer session in Great Britain which offers American students and faculty research opportunities and lectures by eminent British scholars at the Universities of London and Essex. Also administered by the Institute are a number of post-graduate courses leading towards certificates and diplomas at British universities. Various forms of financial aid, including a limited number of partial scholarships, are available.

Complementing the Institute's activities in Great Britain is a program that brings British authorities to USM as visiting professors in a number of disciplines. In addition, the Council of the Institute houses a publications committee whose function is to review scholarly works dealing with Anglo-American themes and publish a limited number of them under the name of the Institute.

For further information on the activities of the Institute, contact William Banks Taylor, Director, Institute of Anglo-American Studies, Southern Station, Box 5136, Hattiesburg, Mississippi 39406-5136.

ADMISSION REQUIREMENTS AND PROCEDURES

Since applicants must always be admitted to a specific program within the Graduate School, all applicants for admission to the Graduate School are closely reviewed and must be approved by the chairman of the department in which the student intends to study, by the school or college dean, and by the Graduate Dean. Admission forms are procurable from and should be submitted to the University Admissions Office.

The aptitude phase (verbal and quantitative sections) of the **Graduate Record Examinations** is required of all applicants to the Graduate School except in the College of Business Administration which requires the **Graduate Management Admissions Test**. Prospective students should plan to take the appropriate examination, given several times a year at a number of university testing centers, early in their senior year and request that a copy of their scores be sent to the Graduate Office.

The academic record, character, and conditions of application of the applicant must be in accordance with the rules and regulations of the Board of Trustees of State Institutions of Higher Learning and with the laws of the State of Mississippi. The applicant must have excellent moral character in conformity with the generally accepted standards customarily in effect in the University.

The University reserves the right to cancel the admission or registration of an individual whose attendance at the University, in the opinion of the appropriate administrative officer and the President, would not be beneficial to himself and/or to the institution.

It should be clearly understood that the admission requirements listed below represent the minimal standards set by the Graduate Council and that additional requirements and higher standards may well be stipulated by the various department chairmen. Applicants should check for such requirements in the departmental section of this Bulletin.

TYPES OF ADMISSION TO MASTER'S PROGRAMS

Any student denied admission to the master's program may have his case reviewed by the Graduate Committee for Admissions and Credits. To initiate the review procedure, the student should send a written request to the Dean of the Graduate School.

I. Regular Admission

- A.** The applicant must hold a baccalaureate degree from an institution approved by a recognized accrediting agency.
- B.** The applicant must be eligible to re-enter in good standing the last college or university attended.
- C.** The applicant must present evidence, by official transcript (two copies), of a grade point average of at least 2.75 (figured on an A equals 4.0 scale) for the last two years of undergraduate study, and a grade point average of at least 3.0 on undergraduate courses in the field of proposed graduate study. Any exception to this requirement must be cleared with the appropriate department chairman, the dean concerned, and the Graduate Dean.
- D.** The applicant must present an acceptable test score on the Aptitude Section of the **Graduate Record Examinations** or the **Graduate Management Admissions Test** applicable to the program into which he seeks admission. Test score requirements vary between departments and some require the advanced section of the **Graduate Record Examinations**. Consult specific departmental requirements for this information.

- E. The appropriate department chairman, the school or college dean, and the Graduate Dean must be satisfied that the applicant shows promise of satisfying graduate degree requirements.

II. Conditional Admission

A student who does not meet the minimum admission standards for either grade point average or **Graduate Record Examinations** or the **Graduate Management Admissions Test** may be admitted on a conditional basis in one of two ways:

- A. He must present a score on the Aptitude Section of the **Graduate Record Examinations** or **Graduate Management Admissions Test** equal to or above that specified for the graduate program into which admission is requested, and a grade point average no lower than 2.5.
- B. He must present a grade point average of 2.75 or above if his score is lower than that specified for the program into which admission is desired.

Conditional admission can be given only upon the specific recommendation of the department chairman, the school or college dean, and the Graduate Dean.

A conditional student at the master's level must maintain a grade point average of at least 3.00 on the first nine (9) semester hours of course work numbered 500 or above or on all courses taken while completing this nine hour requirement. This requirement must be met or the student will not be allowed to continue to seek a master's degree.

All courses taken to remove conditional admission must be taken on a campus of the University of Southern Mississippi. Upon recommendation of the department chairman and approval by the Dean of the Graduate School, the conditional admission will be removed and the student reclassified as a regular student.

III. Non-Degree Graduate Student

Admission as a non-degree graduate student may be granted for any of the following reasons:

- A. He did not meet requirements for conditional or regular admission before the deadline.
- B. He may or may not be able to meet admission requirements but does not desire to work toward a graduate degree.
- C. He is enrolled in another university and desires to obtain credit from the University of Southern Mississippi to be transferred to the graduate school in which he is seeking a degree.

Regulations Governing Non-Degree Graduate Students

Even though a non-degree graduate student has been admitted to the University, he **has not** been admitted to any department or to any degree program. Moreover, no credit earned beyond the master's degree while classified as a non-degree student may be applied toward the doctoral degree.

To be allowed to continue as a non-degree graduate student, the student must consult with the department chairman or academic adviser of the department in which he is taking courses during the first semester enrolled at the University regardless of whether or not the student plans to seek a degree.

To become a degree-seeking student, the student must:

1. Complete the **Graduate Record Examinations** or the **Graduate Management Admissions Test** during the first semester/term he is enrolled at the University.
2. Have the minimum grade point average and **Graduate Record Examinations** score or the **Graduate Management Admissions Test** score requirements for regular or conditional admission in the department where he plans to seek the degree.
3. Complete an application for conditional or regular admission in the Admissions Office after completing the **Graduate Record Examinations** or the **Graduate Management Admissions Test** and when other admission requirements are completed.

No more than nine (9) semester hours earned while classified as a non-degree graduate student will be accepted toward a master's degree at the University of Southern Mississippi. A student must, therefore, gain conditional or regular admission before completing more than nine (9) semester hours of study for additional hours to be counted toward a master's degree.

A non-degree graduate student must hold a baccalaureate degree from an accredited institution.

Non-degree students desiring to enroll on a campus of the University of Southern Mississippi will be expected to file an application for admission by the appropriate deadline.

Students may be admitted as non-degree students to study in the College of Business Administration only if they have undergraduate grade point averages of 2.75 or above.

TYPES OF ADMISSION TO ADVANCED GRADUATE STUDY

Any student denied admission to advanced graduate study may have his case reviewed by the Graduate Committee for Admissions and Credits. To initiate the review procedure, the student should send a written request to the Office of the Graduate School, Southern Station, Box 5024, Hattiesburg, Mississippi 39406-5024.

Three advanced level programs are available for students who hold a master's degree and who wish to do additional graduate work. The first of these programs leads to the specialist's degree, the second to the Master of Philosophy degree, and the third to the various doctoral degrees.

I. Regular Admission

For regular admission to advanced graduate study, a student must present a grade point average no lower than 3.25 for the specialist's and the Master of Philosophy programs or 3.50 for the doctoral program on previous graduate work and an acceptable test score on the aptitude phase of the **Graduate Record Examinations** for the degree program for which he seeks admission.

II. Conditional Admission

For conditional admission to advanced graduate study a student must present either (a) a grade point average of between 3.00 and 3.25 for the specialist's and the Master of Philosophy programs or 3.25 and 3.50 for the doctoral program on previous graduate work and an acceptable **Graduate Record Examinations** score or (b) a grade point average no lower than 3.25 for the specialist's and the Master of Philosophy programs or 3.50 for the doctoral program if the **Graduate Record Examinations** score does not meet the acceptable score for regular admission.

A conditional student at the advanced graduate level must maintain a grade-point average of at least 3.25 on the first nine (9) semester hours of course work numbered 600 or above or on all courses taken while completing this nine hour requirement. This requirement must be met or the student will not be allowed to continue to seek an advanced degree.

All courses taken to remove conditional admission must be taken on a campus of the University of Southern Mississippi. Upon recommendation of the department chairman and approval by the Dean of the Graduate School, the conditional admission will be removed and the student reclassified as a regular student.

For students who have their department's approval to change from the master's or specialist's program to a higher degree program, the chairman and the dean should request the change in a written memorandum to the Graduate School Office. The Graduate School Office will verify that the minimum requirements for the higher degree are met and will inform the Admissions Office.

III. Non-Degree Student

An applicant for advanced study may be admitted as a non-degree student; however, no credit earned as a non-degree graduate student may be applied to doctoral degrees.

Limitations on University Faculty Members

Members of the faculty of the University of Southern Mississippi above the rank of instructor cannot become candidates for a doctoral degree at this institution. They may, however, enroll for graduate courses. Faculty members of the rank of instructor may become candidates for doctoral degrees at the University of Southern Mississippi on the same terms as any other advanced graduate student candidate.

PROCEDURES FOR APPLYING FOR ADMISSION

- I.** Application materials are available from the Dean of Admissions and Special Services, Southern Station Box 5011, Hattiesburg, Mississippi 39406-5011.
- II.** All credentials (application, recommendations, two official transcripts from each institution attended) must be submitted to the Dean of Admissions and Special Services by the deadline published in the University Calendar.
- III.** **After all credentials are received, the Admissions Office will compute the applicant's grade point average and will forward the application and transcript to the appropriate department chairman, school or college dean, and the Graduate Dean.** As soon as the application has been processed by the department chairman, the school or college dean concerned, and the Graduate Dean, the Dean of Admissions will notify the applicant of the University's decision on his request for admission.

Permission for Undergraduate Seniors to Register for Graduate Credit

Exceptionally well qualified undergraduate students at the University of Southern Mississippi may apply to the Graduate Office for permission to take course work for graduate credit if they are within nine (9) semester hours of meeting bachelor's degree requirements as certified by the Registrar. If the Graduate Dean approves, the student may then register for graduate courses up to a maximum of six (6) semester hours of graduate credit with a total course load not exceeding twelve (12) semester hours. The student must complete requirements for the baccalaureate degree within the first semester/term in which he registers for graduate courses. The student's application for admission to the Graduate School will not be given final approval until after he satisfies all requirements for the baccalaureate degree.

STUDENT EXPENSES

The University of Southern Mississippi is supported chiefly by legislative appropriations. Increases in student fees are put into effect only when public support funds are inadequate and no other recourse is available. Increases are made only for support of the institution or improvement of the activity program of the students; therefore the University must reserve the right to increase or modify fees and expenses without prior notice but with approval of the Board of Trustees of State Institutions of Higher Learning.

Fees and expenses are in the form of general tuition, room and board, and special fees.

GENERAL TUITION. This fee, together with the allocation from the legislative appropriation, is used for general support of the University. Athletic activities, health service, and UAC programs are not included for part-time students.

Full-time students for purposes of assessing fees are those who take 9 or more semester hours in Graduate School and 12 or more semester hours in all other schools and colleges during fall and spring semesters. During summer terms, 7 or more semester hours for Graduate School and 9 or more semester hours in all other schools and colleges constitute full-time students for purposes of assessing fees. Students enrolled for more than 19 semester hours during fall and spring semesters and for more than 14 semester hours during the summer term will be assessed the applicable fee for each additional semester hour.

Clinical and hospital services covered by the health service charge included in the general tuition fee are limited to cases of ordinary illness. Services are provided within the limits of the professional, technical, and physical resources of the Clinic. The University does not assume responsibility in cases of extended illness or for treatment of chronic diseases. Cases requiring surgery must be handled by a physician and hospital of the student's choice and at the student's expense.

ROOM, BOARD, AND POST OFFICE BOX. The room, board, and post office box fees are assessed for all students living in University-controlled residence halls and those students living in fraternity houses. Board is available to all other students on an optional basis. Two meal plans are available in the Commons: a seven-day, twenty-meal plan and a five-day, fifteen-meal plan. Weight-watchers diets are available at \$35 extra each semester.

A room deposit of \$40 is payable in advance for the reservation of space in a residence hall. This amount is held as a damage deposit until a student withdraws from the residence hall. Upon withdrawal, the student must make an application to the Resident Manager of the dormitory for refund of the \$40. A student accepting residence hall space will be financially obligated to pay the full semester's room rent. A rent refund will be made only upon withdrawal from the University.

OTHER FINANCIAL INFORMATION. Fees of all students are due and payable at time of registration; however, fees of students enrolled for **six semester hours** or more may be paid one half upon entrance and the balance one week prior to the beginning of the second half of the semester. **Students with University loans, grants, or scholarships may defer only one-half of the amount not covered by their loan, grant, or scholarship.** A \$10.00 late charge will be assessed on any fees not paid in full by one week prior to the beginning of the second half of the semester. This procedure applies on all campuses and resident center locations.

The University reserves the right to withhold readmission to a student until all delinquent accounts have been paid. Transcripts of credits will not be issued for students whose accounts are delinquent. All fees must be paid before a degree is awarded.

Fines accumulated as a result of failure to adhere to the established procedures of the University, such as Library and Security regulations, or any other policy establishing regulations for the protection of University property, shall become collectible by the Bursar's Office, and, if not collected, shall constitute a delinquent account.

Students whose checks for registration are returned will be assessed the late registration fee of \$10.00, in addition to the \$6.00 returned check handling fee.

A fee of \$3.00 for operation of the University Union is included in the fees of all full-time students. A \$1.00 fee is added to the general tuition fee assessment of part-time students.

Courses requiring special fees and music fees are shown in the Special Fee listing (Table II).

A fee of \$7.00 for **The Southerner** (University annual) is payable each school year by all full-time undergraduate students.

RESIDENCE STATUS

LEGAL RESIDENCE OF STUDENTS: The definitions and conditions stated here are as required by state law in the classification of students as residents or nonresidents for the assessment of fees. Requests for a review of residency classification should be submitted to the Dean of Special Academic Services; forms for this purpose are available from the Dean of Special Academic Services' Office.

A MINOR: The residence of a person less than twenty-one years of age is that of the father. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court; or, if custody was not granted, the residence continues to be that of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a legal guardian of his person duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian.

AN ADULT: The residence of an adult is that place where he is domiciled, that is, the place where he actually physically resides with the intention of remaining there indefinitely or of returning there permanently when temporarily absent. Adult students who are residing outside of the State of Mississippi, but whose parents have moved to this state and have become residents, must establish residence in their own right. In determining residence for tuition purposes for persons who return to Mississippi after temporary departures such as school attendance, work elsewhere or military service, cognizance is taken of evidence showing continuity of state residence and demonstrated intent to return to the state.

REMOVAL OF PARENTS FROM MISSISSIPPI: If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the State of Mississippi, the minor is immediately classified as a nonresident student.

TWELVE MONTHS OF RESIDENCE REQUIRED: No student may be admitted to the University as a resident of Mississippi unless his residence, as defined here-in-above, has been in the State of Mississippi for a continuous period of at least twelve months immediately preceding his admission.

RESIDENCE IN AN EDUCATIONAL INSTITUTION CAN BE COUNTED: A student who has lived within the state for twelve months following his twenty-first birthday may establish residence in his own right by showing that he is living in the state with the intention of abandoning his former domicile and remaining in the State of Mississippi permanently, or for an indefinite length of time.

Intent may be demonstrated or disproved by factors including, but not limited to, filing of Mississippi income tax returns, eligibility to vote in Mississippi, motor vehicle registration in Mississippi, possession of a Mississippi operator's license, place of employment, and self support.

RESIDENCE STATUS OF A MARRIED PERSON: A married person may claim the residence of his/her spouse.

CHILDREN OF PARENTS WHO ARE EMPLOYED BY THE UNIVERSITY: Children of parents who are members of the faculty or staff of the University may be classified as residents without regard to the residence requirements of twelve months.

MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI: Members of the armed forces on extended active duty and stationed within the State of Mississippi, except those military personnel whose active duty assignment is for educational purposes, may be classified as residents, without regard to the residence requirement of twelve months, for the purpose of attendance at the University. Resident status of such military personnel who are not legal residents of Mississippi, as defined above under **LEGAL RESIDENCE OF AN ADULT**, shall terminate upon their reassignment for duty in the continental United States outside the State of Mississippi.

CHILDREN OF MILITARY PERSONNEL: Resident status of children of members of the armed forces on extended active duty shall be that of the military parent for the purpose of attending the University during the time that their military parents are stationed within the State of Mississippi and shall be continued through the time that military parents are stationed in an overseas area with last duty assignment within the State of Mississippi, excepting temporary training assignments en route from Mississippi. Resident status of minor children shall terminate upon reassignment under permanent change of station orders of their military parents for duty in the continental United States outside the State of Mississippi, excepting temporary training assignments en route from Mississippi.

CERTIFICATION OF RESIDENCE OF MILITARY PERSONNEL: A military person on active duty stationed in Mississippi who wishes to avail himself or his dependents of the provisions of the paragraph titled **MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI** must submit a certificate from his military organization showing the name of the military member, the name of the dependent, if for a dependent, the name of the organization of assignment and its address (may be in the letterhead), that the military member will be on active duty stationed in Mississippi on the date of registration at the University; that the military member is not on transfer orders; and the signature of the commanding officer, the adjutant, or the personnel officer of the unit of assignment with signer's rank and title. A military certificate must be presented to the Registrar of the University each semester at (or within ten days prior to) registration for the provisions of the paragraph **MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI**, named above, to be effective.

LEGAL RESIDENCE OF A FOREIGN STUDENT: Students with permanent immigrant status or refugee status can establish residence in the state by meeting the provisions of the Mississippi Statute.

PETITIONS FOR CHANGE OF RESIDENCY: Petitions for change of residency must be made on or before the last day a student may register at the particular institution without penalty.

STUDENTS HOLDING ASSISTANTSHIPS: Non-resident students holding University financed assistantships will not be required to pay the non-resident fee during the time they hold such appointments.

REFUND POLICY: A student who officially withdraws after enrollment in a semester may obtain a refund in accordance with the following:

| | |
|---------------------|------|
| Through second week | 80% |
| Through third week | 60% |
| Through fourth week | 40% |
| Through fifth week | 25% |
| After fifth week | None |

The refund schedule above applies to students who drop to an hourly load below full time or from an overload to full-time or below. The applicable percentage then applies to the difference between fees calculated on the resulting hourly load and the original assessment.

Room and board fees are refunded on the basis of full weeks remaining in the semester.

Appeals for refunds due to extenuating circumstances may be made in writing to the Vice President for Business and Finance, University of Southern Mississippi, Southern Station Box 5005, Hattiesburg, MS 39406-5005.

Students who find it necessary to withdraw from the University should come to the Graduate Office for appropriate forms and information

TABLE I
EXPENSES EACH UNIVERSITY SEMESTER/SESSION

(All fees are subject to change without notice. See page 28.)

| FULL-TIME STUDENTS | FALL, SPRING SEMESTERS | SUMMER SESSION |
|---|---------------------------|-------------------|
| FIXED FEES: | | |
| General Tuition..... | \$458.00 | \$289.00 |
| Room Rent: | | |
| Hillcrest and Elam Arms | 445.00 | 296.00 |
| Vann..... | 430.00 | 286.00 |
| Other Air Conditioned Halls..... | 385.00 | 256.00 |
| All Other Halls | 345.00 | 230.00 |
| Board: | | |
| 5-Day Plan..... | 360.00 | 245.00 |
| 7-Day Plan..... | 395.00 | 270.00 |
| Other Fees When Applicable: | | |
| Non-resident fee | 463.00 | |
| *The <i>Southerner</i> | 7.00 | |
| **Post Office Box..... | 16.00/year | |
| PART-TIME STUDENTS—Each Semester Hour—All | | |
| Campuses: | | |
| General Tuition—graduate student | 51.00 | 40.00 |
| General Tuition—undergraduate student | 39.00 | 32.00 |
| Non-resident fee: | | |
| Graduate student | 52.00 | |
| Undergraduate student | 39.00 | |
| *Non-refundable. Charged the first semester attended each year to all full-time undergraduate students. Optional to all other students. | | |

****Non-refundable.** Optional to students living off campus.
Assessed: \$16.00 Fall; \$11.00 Spring; \$6.00 Summer.

General tuition, room, board, and post office, if applicable, are payable each semester/session.

TABLE II SPECIAL FEES AND EXPENSES

Departmental Fees:

REF 516, 616, 622, 623; LS 516, 616, 622, 623 ... \$ 7.50 per course

Music Fees—Private lessons for other than full-time music majors and for music majors taking private lessons not required for the degree being pursued:

Each semester hour per instructor 35.00

Orchestral or Band Instrumental rental 10.00 per course

Examinations and Degrees:

Miller Analogies Test \$ 10.00 when applicable

Revalidation Examination 30.00 when applicable

Special Examination 3.00 when applicable

Application for Degree

Master's 15.00

Specialist's 15.00

Doctoral 110.00

Thesis binding per copy 6.00 when applicable

Continuing Education, Public Service, and Resident Center

Resident Center

Graduate Course \$ 41.00 per semester hour

Resident Center—Laboratory fee 6.00 per course

Resident Center—Typing fee 5.00 per course

Extension Center

Graduate Course 41.00 per semester hour

Registration and Records:

Change of Schedule \$ 5.00 when applicable

Cooperative Education 25.00 when applicable

Late Registration 10.00

Evaluation Fee for Foreign Students

(Non-refundable) 10.00 with application

Memorandum of Credits50 each

Transcript of Credits 1.00 when applicable

Special fees are not normally refundable. However, requests for refunds of special fees will be based on circumstances existing at the times of requests.

AVAILABLE FINANCIAL ASSISTANCE FOR GRADUATE STUDENTS

At present the University has available some 200 master's and 50 doctoral University assistantships in all areas as well as fellowships provided by federal and private agencies. Though amounts may vary from department to department. University assistantships range from \$3400 to \$4500 per academic year at the master's level and from \$4800 to \$6000 per academic year at the doctoral level and entail one-half time of teaching or research assignment. To maintain an assistantship a student must have an average of **B** or better each semester. Out-of-state tuition, though not the general tuition fee, is currently waived for assistantship holders. The University also currently waives out-of-state tuition for students on sabbatical leave with pay from schools and colleges.

Inquiries regarding assistantships should be directed to the Dean of the Graduate School. Applications for assistantships must be filed by March 15.

The National Direct Student Loan, College Work-Study Program, and Insured Student Loans are also available to graduate students. (See the Financial Aid section of the **Undergraduate Bulletin** for detailed information about the NDSL & CWSP Programs.) Applicants for Direct Student Loans and College Work-Study Program should apply by March 15 (priority date) for loans and work to begin the fall term. Applications for the National Direct Student Loan, College Work-Study Program, and Federally Insured Loan (Mississippi residents) may be secured by writing the Director of Financial Aid. Students who reside outside the State of Mississippi should contact their State Department of Education to determine source of Insured Loans used by their state.

PLACEMENT SERVICES

The Office of Placement Services, located on the first floor of McLemore Hall, offers the student two types of employment opportunities while attending the University; part-time employment as well as career employment upon graduation. All employment opportunities are offered free to both the students and the prospective employer.

The Student Employment Division offers the student an opportunity to obtain part-time employment while enrolled as a regular student at Southern. The service is comprehensive in that it will involve jobs for work-study as well as non-work study both on and off campus.

The Career Employment Division provides assistance to graduating seniors, graduates, and alumni in obtaining career employment upon or after graduation.

All students should register with Placement Services and establish a placement credentials folder during the last semester of their junior year or the first semester of their senior year. These credentials are valuable to prospective employers that are seeking information on college graduates for possible employment. The services may be used by the graduate as often as is needed.

GENERAL ACADEMIC REQUIREMENTS

It is reasonable to assume that a graduate student accepts full responsibility for knowing the policies and regulations of the Graduate School and the departmental requirements relevant to his individual degree program.

Only the general academic regulations and requirements governing all graduate programs are given below. Specific requirements pertaining to individual degree programs are outlined within the department sections.

Course Work and Grading System

Courses open to graduate students are those numbered 500 or above.

Many courses have certain prerequisites. A student who wishes to register for a particular course must satisfy the department concerned that he has had preparation adequate for admission to the course.

The grading system in the Graduate School is as follows:

- A** — Indicates that the student's work is of unusually high quality.
- B** — Indicate that the student's work is of high but not exceptional quality.
- C** — Indicates that the student has met the minimum requirements for passing the course.
- D** — Indicates that the student's work is below that which is expected of a graduate student. A course in which the student has earned a grade of **D** will not apply toward a graduate degree. A student who earns more than six (6) semester hours in grades of **D** or below may not be considered as a candidate for a degree.
- E** — Indicates a course in progress. It is to be used only for thesis and dissertation credit while in progress.
- F** — Indicates that the student has failed the course. A student who accumulates more than three (3) semester hours of **F** grades will not be considered as a candidate for a degree.
- I** — Indicates an incomplete record. An **I** becomes an **F** if not removed within one term of attendance.
- P** — Indicates completion of thesis and dissertation credit and is assigned only upon completion. Also used for grades in courses numbered 697 and 797.
- W** — Indicates withdrawal from a course passing.
- X** — Indicates failure to drop or withdraw properly before deadline. Upon completion of the drop/withdrawal form and payment of the appropriate fees, the Registrar is authorized to replace the grade of **X** with a **W**.

Fuller explanation of the grading system is in the **Undergraduate Bulletin**.

The general regulation that degree work must be completed within a six-year period applies to all course work.

A grade-point average of **B** or better is required of all candidates for graduate degrees by the time they complete the course-hour requirements for the degree.

On the recommendation of the student's committee or major professor, a student may retake one graduate level course in order to improve his grade point average.

Course Loads

- I.** Although the maximum load of a full-time graduate student is sixteen (16) semester hours, the normal load for a full-time graduate student is generally considered to be twelve (12) semester hours.

- II. The minimum load for a full-time graduate student is nine (9) semester hours for the purpose of living in Pine Haven, using the services of the Clinic, for veterans affairs, and other such requirements.
- III. Thirteen (13) hours is the maximum load for a graduate fellow teaching one undergraduate class or its equivalent. In no case may the total hours involved in a student's program, including both his course work and his assistantship assignment, exceed sixteen (16) hours.
- IV. The courses numbered 697 and 797—**Independent Study and Research**—may be taken for any amount of credit with the exception that students who are not in residence but who are actively working on a thesis, research problem, or dissertation and consulting with the major professor or making use of the library or other University facilities must enroll for at least one (1) hour each semester.

MASTER'S DEGREE REQUIREMENTS

A convenient checklist of master's degree requirements may be procured in the Graduate Office.

I. Credit Hours

A minimum of thirty (30) semester hours credit is required for any master's degree. Some departments require more than the minimum. Consult specific college and departmental requirements for additional information.

II. Time Limitation

The student must complete the master's degree within six calendar years from the date of initial enrollment as a graduate student. Six years is the maximum age allowed for graduate credits toward a master's degree. If more than six years are needed to complete requirements, the Graduate Dean, under extenuating circumstances, may revalidate over-age credit hours if the original credit was earned at the University of Southern Mississippi and if the dean of the college or school concerned approves the revalidation. The revalidation is secured by the student's successfully passing a special examination on the course. However, any student who fails to complete his master's degree program within the six-year time period becomes subject to any changes in degree requirements made at any date six years prior to his graduation. The fee charged for the special revalidation examination is \$30.00 per course. The fee is to be paid before the revalidation examination is taken. Over-age extension courses cannot be revalidated.

III. Credit Hours Limitations

- A. A minimum of eighteen (18) semester hours must be earned on a campus of the University of Southern Mississippi.
- B. A minimum of fifty per cent of the credit earned at the University of Southern Mississippi must be taken on the campus from which the degree is awarded.
- C. A minimum of eighteen (18) semester hours must be in courses numbered 600 or above. Master of Business Administration degree candidates are permitted to take a maximum of one 500-level course.
- D. A total of no more than nine (9) semester hours of work earned as a non-degree student may be applied toward a master's degree. Please note **H** below.
- E. As many as six (6) semester hours of graduate credit from other accredited institutions may be transferred to the student's program with the approval of the appropriate department chairman and the Graduate

Dean provided that the course work transferred falls within the six-year period allowed for the degree. Please note **G** below.

- F.** If a student has received regular or conditional admission, as many as twelve (12) semester hours of course work may be taken by extension and applied toward a master's degree provided that such courses are taught by a member of the University of Southern Mississippi faculty. In secondary education extension credit will be confined to six (6) semester hours in secondary education and six (6) in the content area.
- G.** However, a student may apply a total of no more than twelve (12) semester hours by extension and transfer toward a master's degree.
- H.** A total of no more than nine (9) semester hours of transfer work and non-degree work may be applied toward a master's degree.
- I.** No more than nine (9) semester hours in workshop or conference credit may be applied toward a master's degree.

IV. The Master's Committee

The student's work toward the master's degree is supervised by a departmental committee composed of a chairman and two members recommended by the department chairman and appointed by the Graduate Dean.

V. The Minor Field

If a minor field is required in the master's program, it shall consist of a minimum of nine (9) semester hours of course work.

VI. The Master's Thesis

Although the degree of Master of Arts usually entails the writing of a thesis, the thesis requirement is optional with the departments for the Master of Science and the Master of Education degrees. Students intending to pursue a degree higher than the master's are encouraged to write a thesis. The Human Subjects Committee must approve the topic.

A separate bulletin outlining University requirements concerning the preparations of theses is available in the Graduate Office.

VII. Examinations

- A.** The aptitude phase of the **Graduate Records Examinations** or the **Graduate Management Admission Test** is required for admission into the Graduate School. Individual departments may require the advanced area tests.
- B.** The Graduate School Foreign Language Test is required for some master's degrees, particularly the Master of Arts. Languages other than French, German, Spanish, and Russian must be approved by the department chairman and the Graduate Dean. Students may procure the proper registration forms in the Office of the Director of Student Counseling.
- C.** In addition to regular examinations, final comprehensive examinations are required for master's degrees. The major department will determine whether the comprehensive examination will be written or oral or both. The written comprehensive, if required, will be prepared by the student's committee and will cover the area of the major field. If an oral examination is required, the chairman of the student's committee will send written notices of the time and place of the examination. Comprehensive examinations, whether written or oral, will be administered no later than the last week of the semester/term in which the student expects to receive his degree and the results reported by the department chairman to the Registrar and to the Graduate Office no later than the last day for presen-

ting signed theses to the Graduate Office. The examination may be administered earlier in the semester/term if the department so desires. A student who fails the comprehensive examination may not retake the examination until its next regular administration and may repeat the examination only once.

SPECIALIST'S DEGREE REQUIREMENTS

The specialist's degree earned in the Departments of Adult Education, Educational Administration, Research, and Foundations, Business Education, Curriculum and Instruction, Counseling Psychology and Counselor Education, English, History, Home Economics Education, Music Education, Physical Education, Science Education, and Special Education provides sixth-year programs designed to prepare students for positions in school administration, advanced technical education for business, teacher training, counseling, and to develop research and evaluation specialists for the public schools. Individual programs and requirements are fully described in the departmental sections of this **Bulletin**.

Students who are seeking the specialist's degree must meet all degree requirements relating to the master's degree, must earn at least thirty-three (33) semester hours beyond the master's degree, must write an acceptable thesis and defend it on an oral examination, or complete a field-based problem, and must complete one full-time semester/term of residence taking all nine (9) semester hours on the Hattiesburg Campus.

A maximum of nine (9) semester hours in workshop or conference credit may be applied toward a specialist's degree.

A maximum of nine (9) semester hours earned as a non-degree student may be applied to the specialist's degree.

THE MASTER OF PHILOSOPHY DEGREE REQUIREMENTS

The Master of Philosophy (MPH) provides a directed degree beyond the master's in a subject area and is intended primarily for teaching careers in high schools and junior colleges. At present the Southern Association of Colleges and Schools requires that "in all colleges at least forty percent of the teaching faculty should possess professional preparation equivalent to two years of advanced study beyond the bachelor's degree." This degree more than fulfills this requirement and in addition provides an intermediate stepping stone for the student who wishes to pursue the Doctor of Philosophy at a later time.

General Requirements

- I. The program consists of a minimum of thirty (30) hours of work beyond the master's degree or sixty (60) semester hours beyond the bachelor's degree in one subject matter area of which no more than four (4) hours can be in thesis research. With departmental permission, a related minor of nine (9) semester hours can be elected. At least one-half of the work in both the major and minor areas must be in courses numbered 600 or above. No more than twelve (12) quarter or nine (9) semester hours by extension or transfer can apply to the degree nor is any institute or project credit applicable. Junior college teachers can substitute a course in the philosophy and administration of the junior college for one of their minor area courses.

- II. Proficiency in a foreign language or, with departmental permission, in computer science or statistics is required unless the student's master program included such a requirements
- III. One semester/term of full-time work on the Hattiesburg Campus constitutes the residency requirement for the degree.
- IV. A departmental qualifying examination, a thesis of considerable scope, a written comprehensive examination covering the entire discipline, and a final oral examination of the thesis are required.
- V. Since the work done for the Master of Philosophy degree is applicable to the Doctor of Philosophy degree, it can be awarded only by departments authorized to grant the Doctor of Philosophy degree, and all departments presently so authorized are permitted to grant the Master of Philosophy.

Completion of the Doctor of Philosophy Degree

1. In order to achieve the Doctor of Philosophy degree the student holding a Master of Philosophy degree must take at least twenty-seven (27) additional hours of course work, of which nine (9) semester hours may be in research leading to the dissertation and of which eighteen (18) must be in courses numbered 600 or above.
2. He must meet the residency requirements as stated in the doctoral degree requirements.
3. He must achieve proficiency in a second language (or in computer science or statistics) if he has not previously done so.
4. He is required to take a rigorous written examination in the specialized area of his discipline in which he plans to write his dissertation.
5. He must write an acceptable dissertation and defend it orally.

DOCTORAL DEGREE REQUIREMENTS

A convenient checklist of doctoral degree requirements may be procured in the Graduate Office.

I. Credit Hours

All doctoral degrees entail a minimum of seventy-eight (78) semester hours of course work beyond the bachelor's degree or forty-eight (48) semester hours of course work beyond the master's degree.

II. Time Limitations

Courses taken above the master's degree or its equivalent which will fit into the degree program but which are six or more years old at the time of admission to the advanced graduate program may be counted toward meeting degree requirements when recommended by the department chairman and approved by the Graduate Dean.

The degree requirements must be completed within a period of six years after the student has been admitted to advanced graduate standing at the University of Southern Mississippi.

III. Credit Hour Limitations

- A. A minimum of thirty-two (32) semester hours of work beyond the master's degree must be earned on the University's Hattiesburg Campus.
- B. Transfer of credit for graduate work done at other institutions must be approved by the department chairman and Graduate Dean. Final evaluation of and acceptance of transfer credit will not be made until the stu-

doctor has been in residence for one semester/term. Transfer of credit for doctoral degree programs is limited to not more than six (6) semester hours or nine (9) quarter hours beyond the master's degree. Exceptions to this restriction may be made with the approval of the department chairman and the Graduate Dean.

- C. No credit earned in workshops or conferences can be applied toward a doctoral degree.
- D. Credit earned as a non-degree graduate student cannot be applied toward a doctoral degree.

IV. Residency

Residency "refers to a period during which the candidate is on the campus engaged in intensive study, sustained association with faculty members and other colleagues who share common scholarly and professional interests, attendance at seminars and colloquia, intensive reading and familiarization with library resources, consultation with specialists in other disciplines and resource centers, and the opportunity for broadened exposure to current intellectual issues as they are revealed in various campus offerings. In short, the requirement is not an inflicted ritual, but an opportunity."¹

The residency requirements for the doctoral degree can be fulfilled by the completion of 24 graduate hours (not to include more than 3 hours Field Problems) of continuous study on the Hattiesburg Campus within the time limit of a minimum of two consecutive semesters (including the full summer session). During this period the student is obligated to devote full time to graduate work and to earn at least 12 semester hours of credit in each of the two semesters. Residency may begin only after the student is admitted to a doctoral program as a regular student.

A student should not attempt to fulfill the residency requirements if he/she is gainfully employed full-time.

A student who holds a fellowship or assistantship may fulfill the residency requirement by earning a total of 24 semester hours within three consecutive semester/terms.

While the above are generalized University residency requirements, students are reminded that many departments have additional residency requirements and some departments have specialized options to meet particular needs. Therefore, all residency plans must be approved in writing by the department chairman before residency is begun.

¹R. Kruh, Council of Graduate Schools in the United States, September, 1977.

V. The Doctoral Committee

The student's work toward the doctoral degree is supervised by a departmental committee composed of a chairman and four members recommended by the department chairman and appointed by the Graduate Dean.

VI. The Minor Field

If a minor field is required in the doctoral program, it shall consist of twelve (12) semester hours of course work and may consist of courses from a number of related areas.

VII. Examinations

- A. The aptitude phase of the **Graduate Record Examinations** or the **Graduate Management Admission Test** is required for admission into the Graduate School. Individual departments may require the advanced area tests.

- B. The Miller Analogies Test is a departmental option for doctoral students in the College of Education and Psychology.
- C. The foreign language and statistics requirements for the doctoral degree may be fulfilled in several ways:
 1. The Doctor of Education degree does not require foreign language proficiency. However, the student must establish proficiency in statistics or computer science either by examination or by completing a prescribed course sequence, the credit hours for which do not apply toward the degree. Doctor of Music Education students refer to doctoral programs in music education.
 2. The Doctor of Philosophy degree requires either (a) proficiency in two languages, (b) proficiency in one language and in statistics or computer science, or (c) proficiency in one language and the completion of a nine-hour minor, the hours for which do not apply toward the degree. The procedure for satisfying proficiency in a specific computer language has been approved by the Graduate Council and is administered by the Department of Computer Science and Statistics.
 A request to use a language (including native language) other than French, German, Spanish, or Russian shall present evidence of research reported in the language, e.g., a bibliography, and evidence of the purpose to which the language will be put in the doctoral dissertation and be approved at each level of: Major Professor, Department Chairman, Dean of the School, Language Committee of the Graduate Council, and the Graduate Council. A score of 460 or above is considered proficient on the standardized Princeton Examination in French, German, Spanish, and Russian.
 Foreign language proficiency will be accepted from another institution provided the examination (GSFLT) was a part of a completed degree program. A student may satisfy the option of a foreign language by successfully completing at least nine (9) semester hours (or equivalent proficiency) in an approved foreign language with grades of C or better. The particular option followed by the student must have the approval of the department chairman and the Graduate Dean. Since the purpose of the foreign language requirement is to assist in the conduct of the major research, the requirement will be met prior to the approval of the dissertation proposal.
- D. All students must have a written and/or oral doctoral qualifying examination in their field, and in the College of Education and Psychology in the **Foundations of Education** as well. This examination should be taken during the first semester/term of the student's enrollment and is designed both to judge the student's fitness to pursue doctoral work and to guide his advisory committee in planning his program. The qualifying examination may be retaken only once.
- E. At the completion of his course work and other examinations, the doctoral student is required to take a written and/or oral comprehensive examination in his major and minor field. If a student does unsatisfactory work on the comprehensive examinations, he may be granted a second examination at the next regularly scheduled time, or later. His committee will recommend the conditions to be met before the examination may be repeated. The comprehensive examinations may be retaken only once.
- F. After the dissertation has been accepted and after all required course work has been completed, but at least four weeks before the candidate is

scheduled to receive his degree, a final oral examination on the dissertation and related fields will be conducted by the student's advisory committee and any other faculty members designated by the Graduate Dean. The examination will be open to any member of the graduate faculty.

VIII. The Dissertation

- A.** The dissertation topic must be approved by the student's major professor and advisory committee and must be an original and significant contribution to knowledge in the chosen field. The Human Subject Committee must also approve the topic.
- B.** A separate bulletin outlining University requirements concerning the preparation of dissertations is available in the Graduate Office.
- C.** The student should register for 898-Dissertation (a minimum of 3 semester hours)-during the semester/term in which he defends his dissertation.

IX. Documents

The doctoral student must file a number of documents with the Graduate Office.

- A.** After his doctoral committee has been appointed and his qualifying examination completed but before he has passed twenty-seven (27) hours of doctoral course work, he should prepare in conjunction with his adviser a "Doctoral Planning Sheet," one copy of which is to go to each member of his committee and two copies to the Graduate Office.
- B.** After the student has completed all the requirements for the doctoral degree other than the dissertation but at least one semester/term prior to graduation he should file two copies of the "Application for Candidacy" form with the Graduate Office and one copy with his adviser.
- C.** The student should present two copies of the "Applications for Degree" form, properly stamped by the Business Office, to the Graduate Office during the semester/term preceding that of graduation.
- D.** When completed, the student's file in the Graduate Office should contain, in addition to the three documents described above, statements from his adviser and/or department chairman appointing his doctoral committee, approving his dissertation prospectus, and verifying the successful completion of his qualifying and comprehensive examinations and dissertation defense. Also contained in his file should be statements of proficiency in language and/or statistics.

COLLEGE OF BUSINESS ADMINISTRATION

Graduate Degrees

1982-1983

| Department/School | Major | Degree |
|---------------------------------------|-------------------------|---------------------------------------|
| Finance and General Business | Business Administration | Master of Business Administration |
| School of Professional Accountancy | Accounting | Master of Professional Accountancy |
| Economics | Economics | Master of Science |

COLLEGE OF BUSINESS ADMINISTRATION

Joseph A. Greene, Jr., Dean
Howard O. Jackson, Assistant Dean
Jack C. Wimberly, Coordinator of Graduate Studies

PURPOSE

One of the objectives of the College of Business Administration is to provide quality education at the master's degree level for those currently working in business, military personnel with a need for education in management, and college graduates who intend to pursue further graduate work elsewhere or add to their knowledge before entering the business world.

To achieve its objective the College has recruited qualified graduate faculty and limits its students to those who demonstrate good potential for doing graduate work.

DEPARTMENTS AND GRADUATE DEGREE PROGRAMS

Within the College of Business Administration the following graduate degree programs are offered: a Master of Business Administration, a Master of Professional Accountancy, and a Master of Science in Economics. These programs are fully accredited by the American Assembly of Collegiate Schools of Business. Inquiries concerning these programs may be addressed to Coordinator of Graduate Studies, College of Business Administration, Southern Station, Box 5096, Hattiesburg, Mississippi, 39406.

USM-Gulf Park and USM-Natchez offer graduate programs in business. Inquiries concerning those programs should be addressed to Coordinator of Graduate Studies, USM-Gulf Park, Long Beach, Mississippi 39560 and Coordinator of Business, USM-Natchez, Natchez, Mississippi 39120, respectively.

On the Hattiesburg Campus a number of graduate fellowships are available. Students with good undergraduate records are encouraged to apply at the time they apply for admission to the Graduate School. To be considered, the student must normally have a 3.0 average on his last two years of undergraduate work and an acceptable score on the **Graduate Management Admission Test**.

ADMISSION STANDARDS

Regular admission is normally granted to applicants who graduated from colleges and universities approved by a recognized accrediting agency whose official transcripts and test scores on the **Graduate Management Admission Test** total (a) 1,000 points based on the formula: 200 times the grade point average of the last two years of undergraduate study (4.0 scale), plus the GMAT score or (b) 950 points based on the formula: 200 times the overall undergraduate grade point average plus the GMAT score. In either (a) or (b) above the GMAT score must be greater than 400 points. Either low grades on important subjects or a low test score may prevent admission even if the standard is met.

Conditional admission is granted to students who do not meet the above criteria but are considered good prospects for graduate study. The conditional graduate student must make grades of **B** or better on each of the first three graduate courses taken to qualify for regular admission. Only a limited number are admitted on this basis.

A student may not enroll in any courses reserved exclusively for graduate students (600 level) in the College unless official admission to one of the programs has been attained prior to registration.

Admission forms and GMAT applications are available in the Office of the Coordinator of Graduate Studies.

Transfers from other graduate schools, including USM regional campuses, must meet the admission requirements outlined above. In addition, no more than six (6) semester hours of appropriate transfer credit with grades of **B** or above are accepted.

DEGREE REQUIREMENTS

The student must complete a minimum of thirty-three (33) semester hours of prescribed work with a **B** average for all degrees; all general requirements of the Graduate School must be met, the appropriate curriculum requirements completed, and an oral/or written examination passed unless excused for exceptional performance.

DEGREE PROGRAMS IN BUSINESS ADMINISTRATION

Master of Business Administration

The Master of Business Administration program is primarily designed to prepare the student for a position of responsibility in business or industry. However, it also is used as preparatory graduate work for the doctoral degree or for teaching in junior colleges where a teaching certificate is not required. The program is broad in nature and aimed at developing general competence in overall management.

Research reveals that individuals with technical or other specialized degrees frequently discover that, after experiencing initially satisfying careers in their specialties, further promotions require a transition into the managerial area. The MBA program supplements the education of the specialist and should enable him to make the transition more readily. For this reason, the MBA program includes many students with undergraduate degrees in other fields as well as those who majored in business or economics as undergraduates.

The student who graduated from a program in business at the undergraduate level may complete his program in one year provided he has retained the proficiencies in the areas of study including mathematics, statistics, and the use of the computer. If his work was done several years ago or he is weak in one of the areas, he should remove his deficiency before taking a graduate course requiring the use of the basic tool.

The student who graduated in some field other than business is expected to spend two semesters removing his deficiencies. The courses numbered 604 may be used for this purpose but do not count in meeting degree requirements.

The following courses are required as prerequisites: Principles of Accounting (6 hours) or ACC 604, Financial Accounting Analysis; Principles of Economics (6 hours) or ECO 604, Economic Analysis; MAT 312 (or equivalent) and Statistics (6 hours); Principles of Management or adequate substitute (3 hours); Principles of Marketing or adequate substitute (3 hours); Business Finance (3 hours); Legal Environment of Business (3 hours); Money and Public Policy (3 hours); Fortran or equivalent (3 hours). A grade of C or better is required in all prerequisite work.

The student may take a graduate course in one area in which he has the prerequisite while completing the prerequisite for another graduate course.

The core requirement for the MBA regardless of emphasis chosen is as follows:

| | Hours | | Hours |
|----------------------|-------|----------------------|-----------|
| ACC 625 | 3 | MGT 625 | 3 |
| ECO 625 or 606 | 3 | GBA 670 | 3 |
| FIN 625 | 3 | Field Emphasis | 9 |
| GBA 625 or 615 | 3 | Elective | 3 |
| MKT 625 | 3 | | <u>33</u> |

The student may select a field emphasis as follows:

Economics: ECO 608, plus two courses selected from ECO 610, 630, 670 (ECO 606 and GBA 625 to be selected in core).

Marketing: MKT 635, 640, 650 (GBA 625 to be selected in core) .

Management: MGT 620 and two courses at the 600 level depending upon the interest and needs of the student as approved by his adviser (GBA 615 to be selected in core).

Real Estate: REI 640, 650 and REI 534 or 560.

Finance: FIN 630, 652 and one elective approved by adviser.

General Business: Three courses at the 600 level from any of the departments depending upon the interest and needs of the student as approved by his adviser.

Public Administration: PS 700, 720, 770.

The MBA student may not take more than one course at the 500 level to apply toward his degree. Thirty-three hours are required for graduation.

Master of Science in Economics

The Master of Science in Economics is designed to prepare students for positions as economists in education, business, or government. It also provides sufficient background for doctoral work in the field. It differs from the Master of Business Administration degree in that it is more specialized in the field of Economics. Yet it is designed so the student must have a basic understanding of all phases of the business world and may choose a minor, if he so desires, in an area of business. It gives the graduate student who has some background in business subjects the option of concentrating more on the operation of the economy rather than specific areas of business.

The student admitted to this degree program must meet all entrance requirements as specified for the Master of Business Administration degree.

A Master of Arts degree in Economics is available through the College of Liberal Arts.

The recommended minor in Economics for a student outside the College of Business Administration consists of ECO 606, ECO 608, and two prescribed electives.

Graduate students majoring or minoring in Economics who qualify are encouraged to join Omicron Delta Epsilon, the national honorary economics society.

Curriculum Requirements

| | Hours | | Hours |
|----------------------|-------|---------------------------|-------|
| ECO 606 | 3 | ECO 670 | 3 |
| ECO 608 | 3 | GBA 625 | 3 |
| ECO 610 or 692 | 3 | Thesis or Electives | 6 |
| ECO 630 | 3 | Minor | 9 |

A maximum of twelve hours may be taken at the 500 level.

Minor must include GBA 670 if undergraduate degree is not in Business.

SCHOOL OF PROFESSIONAL ACCOUNTANCY

Jerold J. Morgan, Director

The School of Professional Accountancy is a school within the College of Business Administration. Emphasis is placed on the preparation for professional examinations in both the public accounting and management accounting areas. The objective of the School is to provide more depth and breadth in Accounting and related subjects than can be accomplished in a four-year program. Enrollment in the School's graduate program is limited to those students who show a high probability of success.

Master of Professional Accountancy

The School offers one degree—the Master of Professional Accountancy. The program leading to the MPA is essentially the culmination of a five-year program. It is intergrated with the Bachelor of Science in Business Administration with majors in Industrial and Institutional Accounting or in Accounting—Data Processing. Thus, a student who earns the BS in BA with a major in one of the accounting options may normally complete the MPA program with one year's additional work. A minimum of thirty (30) hours of graduate work is required.

Students with a variety of educational backgrounds may enter the program. Students who do not have a baccalaureate degree are required to meet both the University core requirements and the College of Business Administration core requirements for undergraduate students. (See Undergraduate **Bulletin**). Students who have a baccalaureate degree from an accredited college or university must either transfer or take the following business environment and tool courses:

| | |
|------------------------------------|-----------------------------------|
| Algebra, Applied Business | Business Finances (3 hours) |
| Mathematics, and Calculus | Legal Environment of Business |
| (9 hours) | (6 hours) |
| Principles of Economics (6 | Fundamental of FORTRAN (3 hours) |
| hours) or ECO 604, Economic | Money and Public Policy (3 hours) |
| Analysis | Administrative Policy and |
| Business Statistics (6 hours) | Decision Making (3 hours) |
| Principles of Management (3 hours) | |
| Principles of Marketing (3 hours) | |

The following lower division accounting courses are also required:

| | |
|---------------------------|---------------------------------|
| Principles of Accounting | Cost Accounting (6 hours) |
| (6 hours) | Income Tax Accounting (3 hours) |
| Intermediate Accounting | Auditing (3 hours) |
| (6 hours) | |
| Fund Accounting (3 hours) | |
| Advanced Accounting I | |
| (3 hours) | |

Professional level courses common to all candidates are as follows:

| | |
|-----------------------------------|-----------------------------------|
| Accounting Courses: | |
| ACC 410* or 510-Auditing II | ACC 605-Advanced Accounting |
| ACC 402 or 502-Advanced | Theory |
| Accounting II | ACC 680-Legal Aspects |
| | of Accounting |
| ACC 405 or 505-Current Accounting | ACC 610-Advanced Problems in |
| Theory and Research | Public Accounting |
| ACC 430 or 530-Federal Income | ACC 630-Tax Planning and Research |
| Tax Accounting II | ACC 640-Contemporary Problems |
| | in Accounting |

*Courses with both a 400 and 500 designation may be taken at either the undergraduate (400) level or the graduate (500) level. A minimum of ten courses must be taken at the graduate level with at least six courses numbered over 600.

Other Courses:

ECO 606-Economic Analysis for Business or ECO 625-Managerial Economics

ECO 608-Economic Analysis for Business II, or GBA-615 Operations Research, or

GBA 625-Statistical Analysis for Decision Making

Admission to the Program

Students who have not completed a baccalaureate degree may be admitted to the School of Professional Accountancy program upon completion of ninety (90) semester hours of undergraduate work including at least twelve (12) semester hours credit in accounting courses numbered above 300. A minimum overall grade point average of 2.75 is required with a minimum grade average of 3.00 in accounting courses numbered above 300. Admission to the program is required for enrollment in ACC 402, 405, 410, 430. Admission to the Graduate School is required before 500 level and 600 level courses may be undertaken. Admission standards for the Graduate School are the same as those set out in this **Bulletin** for graduate study in Business Administration.

Students who begin the program after they have earned a baccalaureate degree in another area may enroll in the College of Business Administration until they have completed the twelve (12) hours of lower division accounting courses required for admission to the professional accounting program. Others who have met this requirement may apply immediately for the graduate program. While admission to the Graduate School is not required until courses numbered 500 and above are attempted, the student is urged to make application to the Graduate School as soon as he is eligible.

Graduation and Retention Standards

Students must earn a minimum 3.0 grade average in courses numbered 500 and above as a condition for graduation. If a student earns a 2.0 or lesser grade average in any semester, or if his grade average for required courses falls below 2.5, he is placed on probation by the School. After one semester of probation, a student is denied admission to further professional accounting courses unless significant improvement can be shown during the probationary semester. After admission to the MPA program, a student is allowed to repeat a maximum of two courses to improve his grade average. No more than one repeat is allowed for courses numbered 500 or above.

COLLEGE OF EDUCATION AND PSYCHOLOGY

Graduate Degrees

1982-1983

| Department | Major | Degree |
|--|---|---|
| Master's Level | | |
| Adult Education | Adult Education | Master of Education |
| Business Education | Business Education | Master of Education, Master of Science |
| | Business Teacher Education Emphasis | |
| | Distributive Education Emphasis | |
| | Vocational Teacher Education Emphasis | |
| Counseling Psychology and Counselor Education | Counseling and Personnel Services | Master of Education |
| | College Counseling Emphasis | |
| | School Counseling Emphasis | |
| | Counseling Psychology | Master of Science |
| Curriculum and Instruction | Educational Curriculum and Instruction | Master of Education, Master of Science |
| | Early Childhood Education (ME) Emphasis | |
| | Elementary Education (ME) Emphasis | |
| | Secondary Education (ME) Emphasis | |
| | Secondary Education (MS) Emphasis | |
| | Reading | Master of Science |
| Educational Administration, Research, and Foundations | Educational Administration and Supervision | Master of Education |
| | Supervision of Instruction Emphasis | |
| | Educational Media and Technology | Master of Education |
| | Research and Evaluation | Master of Science |
| Industrial and Vocational Education | Industrial and Vocational Education | Master of Science |
| Psychology | Psychology | Master of Arts, Master of Science |
| | Mental Health Emphasis | |
| | School Psychology Emphasis | |

| Department | Major | Degree |
|--|--|-------------------------|
| Special Education | Special Education | Master of Education |
| | Emotionally Disturbed Emphasis | |
| | Gifted Emphasis | |
| | Mentally Retarded Emphasis | |
| | Physically Handicapped Emphasis | |
| | Specific Learning Disability Emphasis | |
| | Visually Impaired Emphasis | |
| | Specialist's Level | |
| Adult Education | Adult Education | Specialist in Education |
| Business Education | Business Education | Specialist in Education |
| Counseling Psychology and Counselor Education | Counseling and Guidance | Specialist in Education |
| Curriculum and Instruction | Educational Curriculum and Instruction | Specialist in Education |
| | Early Childhood Education (EDS) Emphasis | |
| | Elementary Education (EDS) Emphasis | |
| | Secondary Education (EDS) Emphasis | |
| | Reading | Specialist in Education |
| Educational Administration and Supervision | Educational Administration and Supervision | Specialist in Education |
| | Administration of Occupational Education Emphasis | |
| | Curriculum and Supervision Emphasis | |
| | Elementary Administration Emphasis | |
| | General Administration Emphasis | |
| | Higher Education Administration Emphasis | |
| | School Business Management Emphasis | |
| | Secondary Administration Emphasis | |
| | Educational Media and Technology | Specialist in Education |
| | Library Science Emphasis | |
| | Educational Research | Specialist in Education |
| Industrial and Vocational Education | Industrial and Vocational Education | Specialist in Education |
| Special Education | Special Education | Specialist in Education |

| Department | Major | Degree |
|--|-----------------------|--|
| Doctor's Level | | |
| Adult Education | Education (ADE) | Doctor of Education |
| | | Doctor of Philosophy |
| | | Adult Education Emphasis |
| Counseling Psychology and Counselor Education | Counseling Psychology | Doctor of Philosophy |
| | | |
| Curriculum and Instruction | Education (CUI) | Doctor of Education |
| | | Doctor of Philosophy |
| | | Elementary Education Emphasis |
| | | Secondary Education Emphasis |
| Educational Adminis- tration and Supervision | Education (EDA) | Doctor of Education |
| | | Doctor of Philosophy |
| | | Education Administration and Supervision Emphasis |
| | | Higher Education |
| | | Administration Emphasis |
| Psychology | Psychology | Doctor of Philosophy |
| | | Clinical Psychology Emphasis |
| | | Developmental Psychology Emphasis |
| | | Experimental Psychology Emphasis |
| Special Education | Education (SPE) | Doctor of Education |
| | | Doctor of Philosophy |
| | | Special Education Emphasis |

COLLEGE OF EDUCATION AND PSYCHOLOGY

Bobby D. Anderson, Dean
Gary S. Rush, Assistant Dean

Requirements for Admission to Graduate Programs

Admission to the Graduate School for study in the College of Education and Psychology requires a specific grade point average and an appropriate GRE score. (See General Admission Requirements.) Any individual who does not meet the general admission requirements may request additional consideration of his application by appealing to the appropriate department chairman. He may be admitted to a graduate program if he receives the approval of the department chairman, the Dean of the College of Education and Psychology, and the Dean of the Graduate School.

Anyone holding a bachelor's degree from an accredited institution may be admitted as a non-degree graduate student. A non-degree graduate student is not considered to be in a graduate program leading to a degree. If the student demonstrates proficiency in graduate work, he may make application for a graduate degree program and, if approved, the student may use up to nine (9) semester hours of work taken as a non-degree graduate student in the degree program.

Those applicants who wish to study for a master's degree in any area of professional public school work should study for the Master of Education degree, and therefore, must first hold or qualify to hold a Class A teaching certificate based on a baccalaureate degree in the area in which they wish to concentrate. A Master of Education degree applicant who does not yet qualify for an A certificate may be admitted to the Graduate School, but must meet the requirements of the State of Mississippi for an A certificate in teaching before the degree will be awarded. However, upon the recommendation of the departmental chairman, the Dean of the College of Education and Psychology may waive the requirements of satisfying certification requirements for those students currently employed or preparing for employment in junior or senior colleges, non-public institutions, or positions not requiring certification. In the event that certification requirements are waived, it is incumbent upon the student to recognize this limitation upon the scope of the areas within which he might seek employment in the future.

In the College of Education and Psychology, the minimum requirement for a master's degree is thirty (30) semester hours; the specialist's degree requires a minimum additional thirty-three (33) semester hours; and the doctoral degree requires a minimum of eighty-four (84) semester hours beyond the bachelor's degree.

DEPARTMENT OF ADULT EDUCATION

The department of Adult Education offers programs of study which lead to four degrees in adult education: Master of Education (M.Ed.), Specialist in Education (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.). Through the completion of courses and/or degrees in those programs, students may enhance their understanding of adults as learners as well as the many means by which educational services are developed and delivered to adults.

Academic preparation in adult education is dependent not only upon knowledge of adult education theory and practice but also upon knowledge from related areas of study, such as psychology, sociology, administration, and management. Consequently, the department's courses and degree programs often follow an inter-

disciplinary approach in preparing persons for roles of professional service to adults. Adult education majors are encouraged to enroll in professionally relevant courses in cognate fields. Students from other departments frequently find adult education courses to be valuable as electives or academic minors.

These degree programs, by nature interdisciplinary and flexible, offer personnel from diverse agencies opportunities for upgrading and building on professional experience. Such agencies include vocational-technical centers, the armed forces, health services, criminal justice and law enforcement programs, public school systems, junior and senior colleges, human service agencies, the Cooperative Extension Service, business and industrial organizations, and others. AA and AAA certification requirements as set by the Mississippi Department of Education may be met through these programs.

Admission to departmental degree programs will be conducted in accordance with College and University policies (please refer to the "Admissions Requirements and Procedures" section of the **USM Bulletin: Graduate Programs**). In general, these procedures include the submission of application and credentials to the Dean of Admissions and Special Academic Services. Additionally, all degree applicants should send the department chairman (a) a letter explaining the applicant's interest in and reasons for pursuing the degree and (b) a resume of academic and job-related experiences. The Departmental Admissions Review Committee will review all applications and recommend the appropriate actions.

Once admitted, students will be assigned a temporary adviser until the student, with the concurrence of the department chairman, selects a permanent advisor. Doctoral students will also select a doctoral advisory committee composed of four additional faculty members, at least one of whom must be a member of the Adult Education faculty. Then, in accordance with departmental policy, students, in collaboration with their appointed advisers, will design programs of study which reflect their long term goals and interests. Basic admissions eligibility and graduation criteria are discussed in the sections which follow.

MASTER OF EDUCATION IN ADULT EDUCATION

To be considered by the Admissions Review Committee for regular admission to the master's degree program, the applicant must (a) have completed a baccalaureate degree with a grade point average of at least 2.75 on the last two years of undergraduate education and (b) present a combined score of 750 or above on the aptitude section of the Graduate Record Examination. An applicant not meeting the requirements for regular admission may be considered for admission on a conditional basis as specified elsewhere in this **Bulletin**.

Curriculum Requirements

The Master of Education degree requires thirty (30) semester hours of graduate course work (no thesis is required for this degree). In addition to the eighteen (18) hours of courses specified below, twelve (12) hours of electives may also be taken. If the student wants to receive AA certification in the state of Mississippi, the electives must include REF 607, and the student must meet all state requirements for certification.

Required Courses

| | Hours |
|---|--------------|
| ADE 540, 576, 601, and 607 (ADE core) | 12 |
| REF 601 (Introduction to Research) | 3 |
| REF 604 or 816 or 818 (Educational Foundations) | 3 |

Electives

| | Hours |
|---|--------------|
| One additional ADE course | 3 |
| Courses in degree-related areas | 9 |

30

To graduate, students must complete an approved thirty (30) semester hour program of studies with an acceptable grade point average and successfully complete a comprehensive examination (both written and oral parts).

SPECIALIST'S DEGREE IN ADULT EDUCATION

To be considered by the Admissions Review Committee for regular admission to the Specialist's degree program, the applicant must (a) hold a Master's degree from an institution approved by a recognized accrediting agency, (b) have a grade point average no lower than 3.25 on all previous graduate work, and (c) present a combined score of 800 or above on the aptitude section of the Graduate Record Examination. An applicant not meeting these requirements may be considered for admission on a conditional basis as specified elsewhere in the **Bulletin**.

Curriculum Requirements

The Specialist in Education degree requires thirty-three (33) semester hours of graduate work beyond the Master's degree. Adult education Ed.S. students must complete all ADE and REF courses (or their equivalents) specified for the Master of Education in Adult Education. Students are also required to complete either a thesis (ADE 798) or an appropriate field study (ADE 794). Altogether, students should complete eighteen (18) semester hours of adult education courses and fifteen (15) hours from relevant content areas or behavioral sciences related to the goals of the student. All courses must be approved by the student's advisor.

To graduate, students must complete an approved thirty-three (33) semester hour program of studies with an acceptable grade point average, successfully complete a comprehensive examination (both written and oral parts), and successfully complete and defend an acceptable thesis or field study.

DOCTOR OF EDUCATION AND DOCTOR OF PHILOSOPHY**Emphasis in Adult Education**

To be considered by the Admissions Review Committee for regular admission to the doctoral program, the applicant must (a) hold a Master's degree from an institution approved by a recognized accrediting agency, (b) have a grade point average of 3.50 on all previous graduate work, and (c) present a combined score of 850 or above on the aptitude section of the Graduate Record Examination. An applicant not meeting the requirements of regular admission may be considered for admission on a conditional basis as specified elsewhere in the **Bulletin**.

Curriculum Requirements

Doctoral programs of study should be designed to provide competency in five area: (1) the general field of adult education in the competency world; (2) psychology of adult learning; (3) social setting of adult learning; (4) foundations of

education; and (5) specific abilities required for the student's particular area of professional interests, including both major areas of study and cognate fields. As early in the program as possible, doctoral students should select an area of emphasis for dissertation research. Programs of study (including all course decisions, research topics, and foreign language selections) must be approved by each student's advisory committee.

Doctoral students must meet two sets of requirements. The departmental program of adult education and related studies are equivalent for Ed.D. and Ph.D. degree programs, requiring a minimum of fifty-four (54) semester hours beyond the Master's degree. Additional requirements are specified by the university for proficiency in statistics, computer science, and/or foreign languages.

Departmental program of studies (minimum 54 credit hours).

In the departmental program, students should complete basic foundations of American education as well as courses and research in adult education and cognate areas. A minimum of twenty-six (26) credit hours must be completed in adult education (ADE) courses; the **remaining** credit hours should be used for educational foundations courses and supporting minors, cognates, and electives. All doctoral students must complete all ADE and REF courses (or their equivalent) specified for the Master of Education in Adult Education. During the two semesters of residency, doctoral students must complete two (2) credit hours of ADE 889, Seminar in Adult Education.

During the dissertation research effort, all students must complete six (6) credit hours of ADE 898, Dissertation. A minimum of three (3) credit hours of ADE 898 must be completed during the semester in which the dissertation is defended. Students may also enroll in ADE 791, Research in Adult Education, during semesters in which the dissertation is in progress. Both ADE 791 and ADE 898 may be included within the departmental program of studies.

Departmental policy requires that each student who has officially entered the dissertation stage (i.e., whose dissertation research proposal has been approved) must maintain continuous enrollment until graduation. Students no longer in residence may enroll in ADE 797 for a minimum of one (1) credit hour per semester. Although ADE 797 enrollment does not count as credit toward the degree, the enrollment does serve as an important official link between the off-campus student and the department. It will be assumed that students who fail to maintain continuous enrollment have chosen to withdraw from the doctoral program. Students who have thus withdrawn from the program must apply to the Admissions Review Committee for readmission in order to complete their doctorate.

Research tools. As stated in the **Bulletin**, doctoral proficiency requirements in foreign languages and statistics may be established either by examination or by completing prescribed course sequences, the credit hours for which do not apply toward the degree. The **Doctor of Education** degree does not require foreign language proficiency. However, students seeking the Ed.D. must establish proficiency in statistics (REF 761 and REF 762). Those seeking the **Doctor of Philosophy** degree will establish proficiency in statistics (REF 761 and REF 762) and in one foreign language approved by the Graduate School.

Graduation. To complete either the Ed.D. or Ph.D. degree, students must maintain an acceptable point average, successfully complete the Doctoral Qualifying Examination, successfully complete a comprehensive examination (both written and oral parts) over all coursework, and successfully complete and defend a dissertation.

DEPARTMENT OF BUSINESS EDUCATION

The Department of Business Education offers programs of study leading to the Master of Science degree in Business Education, the Master of Education degree in Business Education, certification in Cooperative Office Education, certification in Distributive Education, and a specialist's degree in Business Education. Persons who plan to teach business subjects in junior and senior colleges, who desire certification in Cooperative Office Education, or who desire additional training for employment in the business world can find a program suited to their professional goals. A person pursuing any one of these programs, except Distributive Education, should have completed an undergraduate major in business teacher education. Candidates not having completed this major must become eligible for Class A certification as a business teacher as a prerequisite to the completion of all requirements for the first three programs listed. To be eligible for admission to the specialist's degree program, a person must present evidence of satisfactory scholarship in undergraduate and graduate study, hold a master's degree with a major in business education, have a well-defined professional goal, and meet other admission requirements of the University. The department requires a minimum score of 750 on the **Graduate Record Examinations** for admission to the master's degree program and a minimum score of 800 for admission to the specialist's degree program. Applicants must also meet general requirements for the Graduate School.

The appropriate master's degree will be conferred upon candidates who (1) meet the general requirements of the Graduate School and of the Department of Business Education; (2) complete the special curriculum requirements outlined below; and (3) pass an oral examination. In addition, a comprehensive written examination covering course content may be required by the Department of Business Education. A thesis is optional.

The specialist's degree will be conferred upon candidates who satisfactorily complete items (1) and (2) in the preceding paragraph, pass oral and written examinations, and complete a research problem.

A business student seeking the Doctor of Education or the Doctor of Philosophy degree may major in secondary education with an emphasis in business education and earn the degree through the Department of Curriculum and Instruction.

COMMON REQUIREMENTS FOR A MAJOR IN BUSINESS EDUCATION

Master of Science

All students pursuing an emphasis in Business Teacher Education must complete the following requirements:

| | Hours |
|---|-------|
| REF 601 and 607 | 6 |
| (Specialized Subject Matter) | |
| FIN 640 and GBA 685 plus three | |
| Business Administration electives | 15 |
| BED 651, 608, and 669 | 9 |

Master of Education

All students pursuing an emphasis in Business Teacher Education must complete the following requirements:

| | Hours |
|--|--------------|
| REF 601 and 607 | 6 |
| (Specialized Subject Matter) | |
| ECO 670, MGT 625, plus one | |
| Business Administration elective | 9 |
| BED 608, 651, 652, and 669 | |
| plus one elective | 15 |

All students pursuing a specialization in Distributive Education must complete the following requirements:

| | Hours |
|--|--------------|
| REF 601 and 607 | 6 |
| (Specialized Subject Matter) | |
| BED 551, 553, 554, 555 | 12 |
| MKT 524 or 650, 625, 635 and 640 | 12 |

These specialized courses representing 30 semester hours along with six additional hours in marketing (either undergraduate or graduate courses) will meet educational requirements for certification as coordinators of distributive education programs.

It is recommended that REF 601, the research course, be taken early in each program.

CURRICULUM FOR COORDINATORS OF VOCATIONAL BUSINESS EDUCATION PROGRAMS

Persons who hold a Bachelor of Science degree with a major in Business Teacher Education may take the courses listed below to become certified as coordinators of business education programs.

Curriculum Requirements

| Vocational Business Education: | Hours |
|---------------------------------------|--------------|
| BED 552 and BED 553 | 6 |

SPECIALIST'S DEGREE PROGRAM

All students pursuing a specialist's degree in Business Education must complete the following requirements:

| Select two: | Hours |
|--|--------------|
| REF 602, CPY 610, EDA 710 | 6 |
| Specialized Subject Matter: | |
| BED 604 and 701 | 6 |
| Select two or three:* | |
| BED 653, 654, 655, and 656 | 6 or 9 |
| Select one or two:* | |
| BED 750 and 760 | 3 or 6 |
| Field Problem__BED 794* | 3 |
| Specialist Thesis__BED 798 | 6 |
| Outside Minor in Business Administration | 6 |

*The student pursuing a specialist's degree in Business Education has an option to choose a 30-hour program plus a field problem for an additional three hours or a 27-hour program plus a thesis for an additional six hours for a minimum of 33 hours credit beyond the master's degree.

Scholarship and Examination

In addition to achieving acceptable scores on admission examinations and maintaining satisfactory scholarship through the course work, a candidate will be required to achieve satisfactorily in both written and oral comprehensive examinations in business education.

Completion of Work for Degree

A candidate must complete the requirements for the specialist's degree within six years from the date of admission to candidacy.

DEPARTMENT OF COUNSELING PSYCHOLOGY AND COUNSELOR EDUCATION

The Department of Counseling Psychology and Counselor Education offers programs at the master's, specialist's and doctoral levels. Curricular are designed to provide specialized preparation at the respective levels appropriate to populations served in health service and educational settings.

The doctoral program in Counseling Psychology has been approved by the Committee on Accreditation of the American Psychological Association.

MASTER'S DEGREE PROGRAMS

Admission Admission to master's programs is based upon the previous academic record, scores on the **Graduate Record Examinations**, and recommendations. Minimum requirements for regular admission are a combined score of 800 on the Aptitude Section of the GRE and a grade point average of 2.75 or better on the last 60 hours of undergraduate work. Upon recommendation of the Admission Committee, conditional admission may be granted if the student has a GPA between 2.50 and 2.75 and a combined score of 900 or better on the GRE or a GPA of 3.00 or better and a combined score on the GRE of at least 650.

Application for Graduation Graduation is based upon:

1. Completion of required course work in respective program.
2. Satisfactory completion of comprehensive examination.
3. Satisfactory performance in the counseling practicum.

The Master of Science in Counseling Psychology The curriculum is designed to accommodate students who expect to apply for admission to doctoral study (Thesis Option) and those who seek preparation in psychological counseling for roles in health service agencies. Completion of the thesis option does not guarantee admission to the doctoral program offered by the department.

Required Courses

Hours

| | |
|---|----|
| Psychological Foundations | 12 |
| CPY 612, 614, 662, 710, 711, 712, 714, 730, 791 | 27 |
| REF 602 | 3 |
| CPY 696 (Internship) | 6 |

Non-Thesis Option

| | |
|-------------------|----|
| Advanced Practice | |
| Electives | 12 |

Thesis Option

| | |
|--------------------------|---|
| REF 761 or PSY 763 | 3 |
| CPY 698 | 6 |
| Elective | 3 |

Total Requirements: 60

The Master of Education in Counseling and Personnel Services This program is designed to meet the professional preparation needs of individuals who expect to work in the field of counseling and personnel services. Emphases are provided in school counseling and college counseling. A Class A Teacher's Certificate and two years of teaching experience are prerequisites for certification as a school counselor and as a vocational counselor.

| Required Courses (18 hours) | | Hours |
|--------------------------------------|--|-------|
| REF 602 | | 3 |
| CPY 611, 612, 614, 710, and 662..... | | 15 |

| Required for School Counseling Emphasis(12 hours) | | |
|---|--|----|
| REF 601 and 607 | | 6 |
| CPY 610 and 711 | | 6 |
| Total Requirements: | | 30 |

| Required for College Counseling Emphasis (18 hours) | | |
|---|--|----|
| CPY 640, 740, and 796 | | 9 |
| Electives | | 9 |
| Total Requirements: | | 36 |

| Required for Vocational Counselor Certification (18 hours) | | |
|--|--|----|
| The four courses listed for school counselor plus: | | |
| IVE 580 or 611 | | 3 |
| IVE 704..... | | 3 |
| Total Requirements: | | 36 |

SPECIALIST'S DEGREE

The department offers the specialist's degree in Counseling and Guidance with emphasis in (1) School Counseling and (2) College Counseling and Personnel Work. As a sixth year advanced degree program, the specialist's curriculum presupposes a master's degree in counseling or its equivalent and requires completion of an approved program of study including a minimum of thirty-three (33) hours credit beyond the master's degree.

The curriculum for the specialist's degree is purposely designed to be flexible in order that candidates may develop greater specialization in an area related to their individual professional goals. Included in the course of study is a minimum of nine (9) semester hours credit in behavioral science foundations and an approved field study. The general requirements for the specialist's degree are as follows.

Admission

Minimum requirements for regular admission require a combined score of 850 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average of 3.25 on previous graduate work. Upon recommendation of the Admissions Committee, conditional admission may be granted if the student has a GPA of at least 3.00 on previous graduate work and a combined score of 950 or better on the GRE or a GPA of at least 3.50 on previous graduate work and a combined score of at least 750 on the GRE. In addition applicants must:

- 1. Hold or qualify to hold a Class AA certificate in school counseling (school counseling majors only).
- 2. Furnish letters of recommendation from the supervisor of the master's level practicum experience and from the most recent employer.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies containing a minimum of thirty-three (33) semester hours credit beyond a master's degree in counseling or its equivalent.
2. Satisfactory completion of a comprehensive examination.
3. Satisfactory completion of the field study.
4. Satisfactory performance in advanced practicum

DOCTOR OF PHILOSOPHY

The department offers the PhD degree in Counseling Psychology. A scientist-practitioner model provides the basic orientation for program planning. Such a model emphasizes the interrelatedness of psychological theory, research, and practice.

Minimum course requirements for the doctorate are ninety (90) semester hours not including research tools, dissertation, and internship. A minimum of forty-two (42) semester hours is required in the professional core and a minimum of thirty (30) semester hours is required in psychological foundations. Electives may be utilized to develop areas of specialization.

Admissions The department usually admits ten new students each year (based on a ratio of approximately one student for each full-time equivalent faculty member). Applications are processed once a year after February 15 for fall admission. In reviewing applications, the committee will consider the following:

- (a) Aptitude scores on the **Graduate Record Examinations**
- (b) Previous grade point average
- (c) Recommendations of professors and professional employers/supervisors
- (d) Previous work experience
- (e) Ratings from on-campus interview
- (f) Research and publications

Minimum Admission Requirements

Regular: a minimum grade point average of 3.50 on previous graduate work and a combined score of 1000 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional: Where granted, conditional admissions will be reserved for applicants who do not meet all of the regular admission requirements but who present evidence of **outstanding** potential for doctoral study. Such applicants must have a grade point average of at least 3.50 on previous graduate work and a GRE score no lower than 900 or a grade point average between 3.25 and 3.50 and a GRE score of at least 1000. See listing in current volume of **Graduate Study in Psychology** for description of student characteristics.

Qualifying Examinations

The examinations will usually be taken during the second semester of doctoral study.

Comprehensive Examinations

Comprehensive examinations will be scheduled by individual appointment during or after the last semester in which the student is enrolled in courses listed on the approved course of study and will consist of written and/or oral questions.

Residency

Completion of the minimum residency requires full-time on-campus study for two consecutive semesters. Due to the clinical nature of the training involved in the program, it is highly recommended that students not apply until they can remain in residency for at least two years. During the residency, students are expected:

1. To carry a minimum course load of twelve (12) hours per semester for at least two consecutive semesters or, in the case of a student on one-half time University assistantship, twenty-seven (27) semester hours work in consecutive semesters.
2. To participate in a variety of credit and non-credit departmental activities including three semesters of CPY 810, laboratory and practicum experiences, individual case work, field trips and other related professional activities.
3. To be relieved of job responsibilities with off-campus employers.

Internship

One year of pre-doctoral internship, (1900-2000 hours) experience is required. Doctoral internships are off-campus, involve full-time responsibilities, and are usually paid.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

The Department of Curriculum and Instruction includes the areas of elementary education, early childhood education, reading, and secondary education. The department offers the following graduate degrees, majors, emphasis areas, and specialization areas:

MASTER OF EDUCATION

Major

Educational Curriculum and Instruction

Emphasis Areas

Early Childhood Education

Elementary Education

Secondary Education

Specialization Areas (Secondary)

Art

Biology

Chemistry

Communication

English

Foreign Language

Geology

Industrial Arts

Mathematics

Music Education

Physical Education

Physics

Theatre Arts

Science

Social Studies

MASTER OF SCIENCE

Majors

Educational Curriculum and Instruction

Emphasis

Secondary Education

Specialization Areas (Secondary)

(See areas under **Master of Education.**)

Reading

SPECIALIST IN EDUCATION

Majors

Educational Curriculum and Instruction

Emphasis Areas

Early Childhood Education

Elementary Education

Secondary Education

Specialization Areas (Secondary)

(See areas under **Master of Education.**)

Reading

Specialization Areas:

Curriculum and Supervision in Reading

Clinical Reading

College Reading/Study Skills

DOCTOR OF EDUCATION AND DOCTOR OF PHILOSOPHY

Major

Education

Emphasis Areas

Elementary Education

Specialization Areas (Elementary)

Early Childhood Education

Reading

Secondary Education

Specialization Areas (Secondary)

(See areas under **Master of Education.**)

Only candidates holding a Class A certificate, or who exhibit willingness to meet Class A certification requirements at the undergraduate level prior to completion of a graduate degree program, will be admitted to the Department of Curriculum and Instruction. However, upon the recommendation of the department chairman, the certification requirement may be waived for a student pursuing a graduate degree in an area of secondary education or reading who is currently employed or preparing for employment in a junior or senior college, non-public institution, or for a position not requiring certification. In the event the certification requirement is waived, it is incumbent upon the student to recognize this limitation upon the scope of the areas within which he/she might seek employment in the future.

The Department of Curriculum and Instruction strongly recommends that a student gain one year of teaching experience before completing his/her master's degree program. No student will be eligible to receive a specialist's degree until he/she has completed at least two years of teaching experience. Three years of teaching experience is a requisite for a doctor's degree. The student should note the following teaching experience requisites for the various levels of certification under Mississippi's certification requirements: Class AA certification - two years of teaching experience; Class AAA certification - three years of teaching experience; and Class AAAA certification - five years of teaching experience.

MASTER'S PROGRAMS

The Department of Curriculum and Instruction offers Master of Education degree with a major in educational curriculum and instruction with emphasis areas in early childhood education, elementary education, and secondary education. The Master of Science degree is offered with a major in educational curriculum and instruction with an emphasis in secondary education and with a major in reading.

The program of study at the master's degree level is designed to increase the professional competency of the classroom teacher and to provide the course work necessary to meet standards of teaching certification at this advanced level.

The master's degree program requires admission to a particular program, appointment of a graduate adviser, completion and submission of four copies of the application form for a master's degree at least one semester in advance of the date of graduation, successful completion of the comprehensive examination, and completion of all course work requirements.

ADMISSION REQUIREMENTS

In order to be admitted on a regular basis to a master's degree program, an applicant must have a grade point average of at least 2.75 (figured on an A equals 4.0 scale) for the last two years of undergraduate study. In addition, the applicant must make a combined score of at least 750 on the Aptitude Section (verbal and quantitative) of the **Graduate Record Examinations**.

If an applicant does not meet the above requirements for regular admission, he/she may be admitted to a master's degree program on a conditional basis in one of two ways:

- 1. By having a combined score of at least 750 on the Aptitude Section of the **Graduate Record Examinations** and by having a grade point average no lower than 2.5, or
- 2. By having a grade point average of at least 2.75 if he/she has scored lower than 750 on the Aptitude Section of the **Graduate Record Examinations**.

MASTER'S DEGREES

**Master of Education with Emphasis
in Early Childhood Education**

| | Hours |
|--|--------------|
| REF 601, 604, 607 | 9 |
| CIE 606, 770, 772, 776, 777, 778 | 18 |
| CIE 698 (Thesis) or CIE 728 | 3 |

Both the thesis program and the non-thesis program consist of thirty (30) required hours. Substitutions for required courses must be approved in advance and in writing by the department chairman or the graduate coordinator.

**Master of Education with Emphasis
in Elementary Education**

| | Hours |
|--|--------------|
| REF 601, 604, 607 | 9 |
| CIE 606, 705, 724, 725, 776 | 15 |
| Elective | 3 |
| Select one course from the following for three (3) hours: CIE 706, 727, 729, 768, 778; EDA 600, 620; GHY 617; REF 660; SCE 730, 731, 732, 733. | |
| CIE 698 (Thesis) or CIE 728 | 3 |

Both the thesis program and the non-thesis program consist of thirty (30) required semester hours. Substitutions for both required courses and designated electives must be approved in advance and in writing by the department chairman or the graduate coordinator.

Students completing the thirty (30) semester hour thesis or non-thesis Master of Education program with an emphasis in elementary education may qualify for additional Class AA certification in remedial reading by (a) selecting CIE 706 as an elective in the elementary program and (b) completing the following additional reading courses for nine (9) semester hours: CIE 713, CIE 729, and CIS 754.

**Master of Science Degree and Master of Education
with Emphasis in Secondary Education**

| Plan I (Thesis Program-MS Degree) | | Plan II (Non-Thesis Program- M.Ed. Degree) | |
|--|--------------|---|--------------|
| | Hours | | Hours |
| REF 601, 604, 607 | 9 | REF 601, 604, 607 | 9 |
| CIS 700 | | CIS 700 | 3 |
| CIS 698 (Thesis) | 3 | CIS 708 or CIS 754 | 3 |

In addition to the fifteen (15) semester hour core requirement of Plan I and Plan II listed above, a specification of at least fifteen (15) semester hours must be taken in one of the following areas:

| | |
|------------------|--------------------|
| Art | *Mathematics |
| Biology | Music Education |
| Chemistry | Physical Education |
| Communication | Physics |
| English | Theatre Arts |
| Foreign Language | **Science |
| Geology | ***Social Studies |
| Industrial Arts | |

*The student selecting mathematics as a specialization may use CIS 701 and/or CIS 710 in his/her program. If only one course is used, it must be substituted for a mathematics (MAT) course. If both are used, the additional course must be substituted for REF 604.

**The student selecting science as a specialization may use, with the approval of his/her adviser, a combination of science courses; however, a minimum of six (6) semester hours of graduate credit must be taken in each area of desired science endorsement for which the individual holds a Class A endorsement under Mississippi's Class AA certification requirements for endorsements in science. The student must meet the requirements for a Class AA endorsement in at least one science area. No more than three (3) hours of science education (SCE) courses may be used. To be used in an endorsement area, the SCE course must be in that area.

***Courses may be taken in any one or a combination of the following areas: history, geography, political science, sociology, and economics.

Under certain conditions, other specialization areas may be selected with the approval of the department chairman.

Both the thesis program and the non-thesis program consist of thirty (30) required semester hours. Substitutions for required courses must be approved in advance and in writing by the department chairman or the graduate coordinator.

Master of Science in Reading

| | Hours |
|--|-------|
| REF 601, 604, 607..... | 9 |
| CIE 606, 705, 729, 713, 622 or 733, and CIS 754..... | 18 |
| CIE 698 (Thesis) or CIE 728..... | 3 |

Both the thesis program and the non-thesis program consist of thirty (30) required semester hours. Substitutions for required courses must be approved in advance and in writing by the department chairman or the graduate coordinator.

Students completing the thirty (30) semester hour non-thesis Master of Science degree program in reading may qualify for additional Class AA certification in elementary education (provided the individual holds Class A certification in elementary education) by completing one of the following courses for three (3) additional semester hours: CIE 724, 725, 727, 768, or 776.

Students in the thesis program may qualify for Class AA certification in elementary education (provided the individual holds Class A certification in elementary education) by completing two of the courses in the above sequence (CIE 724, 725, 727, 768, 776) for six (6) additional semester hours.

SPECIALIST'S PROGRAMS

The Department of Curriculum and Instruction offers the Specialist in Education degree with majors in either educational curriculum and instruction or reading.

The student majoring in educational curriculum and instruction has the option of taking an emphasis in early childhood education, elementary education, or secondary education.

The student pursuing a specialist's degree with emphasis in secondary education can choose a specialization from a number of teaching (subject) areas.

The student pursuing a specialist's degree with a major in reading can choose one of three specialization areas: curriculum and supervision in reading, clinical reading, and college reading/study skills.

Entrance into a particular specialist's degree program presupposes that the student has completed, or is willing to complete, the course work required for that program at the master's degree level.

All specialist's degree programs require a minimum of thirty-three (33) graduate semester hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE/CIS 880).

The specialist's degree program requires admission to a particular program; submission of an approved program of studies; completion of all required course work, to include the completion of one full-time semester/term of residence taking all nine (9) semester hours on the Hattiesburg Campus; successful completion of the specialist's oral examination; and completion and defense of an approved thesis or field problem.

ADMISSION REQUIREMENTS

In order to be admitted on a regular basis to a specialist's degree program, an applicant must have a grade point average no lower than 3.25 on previous graduate work and a combined score of at least 800 on the Aptitude Section (verbal and quantitative) on the **Graduate Record Examinations**. If an applicant does not meet the above requirements for regular admission, he may be admitted to a specialist's degree program on a conditional basis one of two ways:

1. By having a combined score of at least 800 on the Aptitude Section of the **Graduate Record Examinations** and by having a grade point average no lower than 3.00, or
2. By having a grade point average no lower than 3.25 on previous graduate work and by having a combined score of at least 750 on the Aptitude Section of the **Graduate Record Examinations**.

SPECIALIST'S DEGREE

Specialist in Education with Emphasis in Early Childhood Education

Plan I (Thesis Program)

| Hours | Hours |
|---------------|------------------------|
| REF 602 | EPY 740, 746, or |
| EDA 620 | REF 818 |
| CIE 725 | CIE 880 |
| CIE 762 | CIE 798 (Thesis) |

Plan II (Field Problem Program)

| Hours | Hours |
|---------------|-------------------------------|
| REF 602 | EPY 740, 746, or |
| EDA 620 | REF 818 |
| CIE 725 | CIE 880 |
| CIE 762 | Elective |
| | CIE 794 (Field Problem) |

In addition to the twenty-two (22) semester hour core requirement of Plan I and Plan II listed above, students pursuing the specialist's degree with an emphasis in early childhood education must complete at least twelve (12) hours in early childhood education.

The specialist's program with an emphasis in early childhood education consists of a minimum of thirty-three (33) required hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE 880). Substitutions for both required courses and designated electives must be approved in advance and in writing by the department chairman or the graduate coordinator.

Specialist in Education with Emphasis in Elementary Education

Plan I (Thesis Program)

| Hours | Hours |
|----------------------|------------------------|
| REF 602 | EPY 740, 746, or |
| EDA 620 | REF 818 |
| CIE 706 or 729 | CIE 880 |
| CIE 762 | CIE 798 (Thesis) |

Plan II (Field Problem Program)

| Hours | Hours |
|----------------------|-------------------------------|
| REF 602 | EPY 740, 746, or |
| EDA 620 | REF 818 |
| CIE 706 or 729 | CIE 880 |
| CIE 762 | Elective |
| | CIE 794 (Field Problem) |

In addition to the twenty-two (22) semester hour core requirement of Plan I and Plan II listed above, students pursuing the specialist's degree with an emphasis in elementary education must complete at least twelve (12) additional semester hours in elementary education (preferably in a subject area or areas).

The specialist's program with an emphasis in elementary education consists of a minimum of thirty-three (33) required hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE 880). Substitutions for both required courses and designated electives must be approved in advance and in writing by the department chairman or the graduate coordinator.

**Specialist in Education with Emphasis
in Secondary Education**

Plan I (Thesis Program)

| Hours | | Hours | |
|-----------------------|---|------------------------|---|
| REF 602, 818 | 6 | CIS 754 or 708..... | 3 |
| EPY 775 or EPY 742 or | | CIS 880 | 1 |
| EDA 620..... | 3 | CIS 798 (Thesis) | 6 |

Plan II (Field Problem Program)

| Hours | | Hours | |
|---------------------------|---|---------------------|---|
| REF 602, 818 | 6 | CIS 754 or 708..... | 3 |
| EPY 775, EPY 742, | | CIS 880 | 1 |
| EDA 620..... | 6 | CIS 794 (Field | |
| (Select two of the above) | | Problem) | 3 |

In addition to the nineteen (19) semester hour core requirement of Plan I and Plan II listed above, a specialization of at least fifteen (15) hours must be taken in one of the specialization areas listed under the heading **Master of Science Degree and Master of Education with Emphasis in Secondary Education**.

The student selecting mathematics as a specialization may use, with the approval of his/her adviser, as many as six (6) semester hours of credit from the following courses: CIS 701, 705, 706, 707, 710, and 723. If only one course is used, it must be substituted for a mathematics (MAT) course. If two courses are used, the additional course must be substituted for EPY 775, EPY 742, or EDA 620.

The student selecting science as a specialization may use, with the approval of his/her adviser, a combination of science courses; however, a minimum of nine (9) semester hours of graduate credit must be taken in each area of desired science endorsement for which the individual holds a Class AA endorsement under Mississippi's Class AA certification requirements for endorsements in science. The student must meet the requirements for a Class AAA endorsement in at least one science area. No more than three (3) hours of science education (SCE) courses may be used. To be used in an endorsement area, the SCE course must be in that area.

The specialist's program in secondary education consists of a minimum of thirty-three (33) required semester hours beyond the master's degree, exclusive of the advanced graduate seminar (CIS 880). Substitutions for both required courses and designated electives must be approved in advance and in writing by the department chairman or the graduate coordinator.

Specialist's in Education in Reading

Plan I (Thesis Program)

| | Hours | | Hours |
|-------------------------|-------|-------------------|-------|
| REF 602 or 818 | 3 | EDA 620 | 3 |
| EPY 740, 742, 746 | | CIE/CIS 880 | 1 |
| 774, or 775 | 3 | CIE/CIS 798 | 3 |

Plan II (Field Problem Program)

| | Hours | | Hours |
|--------------------------|-------|--------------------------|-------|
| REF 602 or 818 | 3 | EDA 620 | 3 |
| EPY 740, 742, 746, | | CIE/CIS 880 | 1 |
| 774, or 775 | 3 | CIE/CIS 794 (Field | |
| CIE 762 | 3 | Problem) | 3 |

In addition to the sixteen (16) semester hour core requirement of Plan I and Plan II listed above, the student must complete at least eighteen (18) semester hours in advanced reading from one of the three specialization areas described below. Each of the areas is built around course and practicum experiences necessary to build basic competencies in the selected specialization area, while at the same time realizing and expanding on the previous experiences of the candidate.

Curriculum and Supervision in Reading. This specialization area includes a minimum of eighteen (18) semester hours in advanced reading courses designed to build competencies necessary to pursue a career as a reading consultant, materials development specialist, or elementary, secondary reading supervisor.

Clinical Reading. This specialization area includes a minimum of eighteen (18) semester hours in advanced reading courses designed to develop competencies necessary to pursue a career as a diagnostic evaluator or therapist in reading.

College Reading/Study Skills. This specialization area includes a minimum of eighteen (18) semester hours in advanced reading courses designed to develop competencies in teaching reading/study skills to freshmen at the junior or senior college level.

The specialist's program in reading consists of a minimum of thirty-three (33) required semester hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE/CIS 880). Substitutions for required courses must be approved in advance and in writing by the department chairman or the graduate coordinator.

DOCTORAL PROGRAMS

The Department of Curriculum and Instruction offers Doctor of Education and Doctor of Philosophy degrees with a major in education and an emphasis in either elementary or secondary education. If a student desires to receive a Doctor of Philosophy degree, he/she should follow one of the doctoral programs outlined in this section and, in addition, gain proficiency in a foreign language.

The doctoral program with an emphasis in elementary education provides for specialization in both early childhood education and in reading. A student choosing an emphasis in elementary education, with or without a specialization in either early childhood education or in reading, must complete the requisite course work in that area prior to beginning doctoral study.

The doctoral program with an emphasis in secondary education provides for specialization in various teaching (subject) areas as well as in reading. A student specializing in a particular area must complete the requisite course work in that area prior to beginning doctoral study.

All doctoral programs consist of a minimum of eighty-four (84) graduate semester hours beyond the bachelor's degree, exclusive of the dissertation, statistics, and advanced graduate seminars (REF 761, REF 762, and CIE/CIS 880). More than eighty-four (84) hours may be required in order to satisfy deficiencies which may exist in the student's background and preparation.

There are three distinct phases through which all students proceed in pursuit of the doctoral program. These include:

1. Phase One—involvement in procedures relative to gaining admission to a particular degree program, successful completion of the qualifying examinations, and appointment of the candidate's major professor and doctoral committee.
2. Phase Two—involvement in procedures relative to the development of a program of studies, successful completion of the foreign language requirement for students pursuing the PhD degree, acceptance of the doctoral prospectus, completion of the residency and course work requirements, successful completion of the comprehensive examination, and admission to candidacy for a doctoral degree.
3. Phase Three—involvement in procedures relative to approval of the dissertation.

For specifics concerning the above phases, the student should refer to departmental guidelines and the **Admission Requirements and Procedures** section and the **General Academic Requirements** section of the **Graduate Bulletin**.

ADMISSION REQUIREMENTS

In order to be admitted on a regular basis to a doctoral program, and applicant must have a grade point average no lower than 3.5 on previous graduate work and a combined score of at least 900 on the Aptitude Section (verbal and quantitative) of the **Graduate Record Examinations**.

If an applicant does not meet the above requirements for regular admission, he may be admitted to a doctoral program on a conditional basis in one of two ways:

1. By having a combined score of at least 900 on the Aptitude Section of the **Graduate Record Examinations** and by having a grade point average no lower than 3.25 on previous graduate work or
2. By having a grade point average no lower than 3.5 on previous graduate work and by having a combined score of at least 850 on the Aptitude Section of the **Graduate Record Examinations**.

DOCTORAL DEGREES

**Doctor of Education and Doctor of Philosophy with Emphasis
in Elementary Education**

| | Hours |
|--------------------------------------|-------|
| REF 761, 762, 816, 893 | 12 |
| EPY 742, 740, or REF 818 | 3 |
| EDA 711 or 713 | 3 |
| CIE____ (an advanced methods course) | 3 |
| CIE 862 | 3 |
| CIE 880 | 3 |
| CIE 797 and CIE 898 | |

In addition to the twenty-seven (27) semester hour core requirement listed above, students pursuing the doctoral degree with an emphasis in elementary education

must complete at least twelve (12) hours in elementary education (preferably in a subject area or areas) and a minimum of nine (9) hours in a related field(s) outside of the Department of Curriculum and Instruction.

Students desiring a specialization in early childhood education must complete at least twelve (12) hours in early childhood education, instead of elementary education, and a minimum of nine (9) hours in a related field(s) outside the department.

Students desiring a specialization in reading must complete at least eighteen (18) hours in reading, instead of the twelve (12) hours in elementary education, and a minimum of nine (9) hours in a related field(s) outside the department.

Students seeking an emphasis in elementary education, with or without a specialization in either early childhood education or in reading, are to choose electives to complete a program consisting of a minimum of eighty-four (84) graduate semester hours beyond the bachelor's degree, exclusive of the dissertation, statistics, and advanced graduate seminars (REF 761, REF 762, and CIS 880). More than eighty-four (84) hours may be required in order to satisfy deficiencies which may exist in the student's background and preparation.

Doctor of Education and Doctor of Philosophy with Emphasis in Secondary Education

| | |
|--|----|
| REF 761, 762, 816, 893 | 12 |
| EPY 775, 742, or REF 818 | 3 |
| EDA 711 or 713 | 3 |
| CIS____ (an advanced methods course) | 3 |
| CIS 880 | 3 |
| CIS 797 and CIS 898 | 3 |

The twenty-four (24) semester hours of required course work listed above serve as a core program for students pursuing the doctoral degree with an emphasis in secondary education. The doctoral program consists of a minimum of eighty-four (84) graduate semester hours beyond the bachelor's degree, exclusive of the dissertation, statistics, and advanced graduate seminars (REF 761, REF 762, and CIS 880). More than eighty-four (84) hours may be required in order to satisfy deficiencies which may exist in the student's background and preparation.

Of the total number of hours required of a doctoral student with an emphasis in secondary education, approximately one-half must be taken in one of the specialization areas listed under the heading **Master of Science Degree and Master of Education Degrees in Secondary Education**.

With the approval of the department chairman, the student who will be assuming major responsibility for reading programs at the secondary or college level may use reading as a specialization area for his/her doctoral degree.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION, RESEARCH, AND FOUNDATIONS

The programs in Educational Administration and Supervision encompass the full range of administrative positions and lead to the master's degree, the specialist's degree, and the doctorate in education with an emphasis in educational administration. Programs at the master's degree level provide preparation in the elementary school principalship, the junior high school principalship, the high school principalship, and supervision of instruction. Programs at the specialist's and doctoral levels provide preparation for superintendency and central administrative staff positions. In addition, the program at the doctoral level provides preparation for college

teachers in educational administration and persons desiring to prepare for administration in higher education.

The Research and Foundations components of the Department of Educational Administration, Research, and Foundations provide supportive services in teacher education. At the graduate level, these services are provided in the areas of Educational Foundations, Educational Media and Technology, and Educational Research. Also offered are the master's degree, specialist's degree, and doctoral minor emphasizing Educational Media and Technology and Educational Research.

The following course patterns for the different levels set forth only the minimum core requirements, and the electives selected to suit individual needs and objectives must be chosen with the advice and approval of the student's major professor. Therefore, it is mandatory that the student consult early in his program, and frequently thereafter, with his major professor concerning the selection of courses and sequence in which these courses will be taken.

DEPARTMENT POLICIES

The following departmental policies are supplementary to the rules and regulations of the University and the Graduate School as set forth elsewhere in this **Bulletin**.

**PROGRAMS AND COURSES IN
EDUCATIONAL ADMINISTRATION
MASTER'S PROGRAMS**

Admission
Regular:

A minimum grade point average of 2.75 and a combined score of 750 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

Departmental action provided the student has a score of 750 or above on the Aptitude Section of the **Graduate Record Examinations** and a grade point average no lower than 2.5 or a grade point average of 2.75 or above if the **Graduate Record Examinations** score is below 750.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies consisting of a minimum of thirty (30) semester hours.
2. Satisfactory completion of the comprehensive examination.

Educational Administration

| | Hours |
|---|-------|
| REF 601—Research: Its Introduction and Methodology | 3 |
| REF 607—Basic Course in Curriculum Development. | 3 |
| Select three (3) hours from the following: | |
| REF 604, EPY 740, EPY 774, or EPY 775 | 3 |
| EDA 600—Basic Course in Educational Administration and Supervision | 3 |
| EDA 620—Supervision of Instruction* | 3 |
| EDA 650—School Business Management* | 3 |
| EDA 698—Thesis. Credit is deferred until thesis is completed** | 6 |
| Total 18 or 24 hours | |

Electives: 6 or 12 hours. Subject to the approval of the student's adviser, elective courses are to be taken as follows:

- 1) Nine (9) semester hours in Educational Administration and Supervision must be taken by students not writing a thesis. Six (6) semester hours are required for those students writing a thesis. In either option, three (3) semester hours must be selected from the following courses depending on program emphasis:
 - EDA 630—The Elementary School Principal. 3
 - EDA 634—Secondary School Administration 3
- 2) The one remaining elective course for those not writing a thesis may be taken in a related area 3
 - *Prerequisite: EDA 600
 - **Required only of students writing a thesis

Supervision of Instruction

| | Hours |
|---|-------|
| REF 601—Research: Its Introduction and Methodology | 3 |
| REF 607—Basic Course in Curriculum Development. | 3 |
| CIE 728 or CIS 708 | 3 |
| EDA 600—Basic Course in Educational Administration and Supervision. | 3 |
| EDA 620—Supervision of Instruction* | 3 |
| EDA 720—Advanced Curriculum Development** | 3 |
| EDA 738—Practicum in Supervision** | 3 |
| EDA 689—Thesis. Credit deferred until thesis is completed***. | 6 |
| Total 21 or 27 hours | |

Electives: 3 or 9 hours. EDA 630 or EDA 634 is required as an elective. The remaining courses may be chosen from the related areas subject to the approval of the student's major professor.

*Prerequisite EDA 600

**Prerequisite EDA 620

***Required only of students writing a thesis

SPECIALIST'S DEGREES

Admission

Regular:

A minimum grade point average of 3.25 on previous graduate work and a combined score of 800 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

A grade point average between 3.00 and 3.25 on previous graduate work and a **Graduate Record Examinations** score no lower than 800 or a grade point average no lower than 3.25 and a **Graduate Record Examinations** score between 750 and 800.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies as determined by the student's committee and which may consist of more than the minimum thirty-three (33) semester hours of credit required for graduation.
2. Satisfactory completion of the comprehensive examination.
3. Successful defense of the research project or the field problem.

PROGRAMS

The specialist's degree students must have completed all courses or their equivalent in the master's degree program. Those courses not taken must be completed but will not count as part of the specialist's program. Additional electives are required for previously completed required courses.

A minimum of nine (9) semester hours in cognate areas is required in all of the specialist's degree programs. The department defines cognate areas as those courses which broaden and complement the student's program which are outside the areas of professional education. These courses and other electives will be chosen with the approval of the student's major professor and additional hours may be required to satisfy deficiencies in the student's program.

Administration

EDA 700, 704, 706, 710, 720, 736, 738

EDA 794 or EDA 798

Total—24 or 27 hours

Electives—6 or 9 hours in cognate areas

Secondary Administration

EDA 700, 704, 708, 710, 720, 738

EDA 794 or EDA 798

Total—21 or 24 hours

Electives—9 or 12 hours with 9 hours in cognate areas

Elementary Administration

EDA 700, 704, 710, 720, 738

EDA 794 or EDA 798

Total—18 or 21 hours

Electives—12 or 15 hours with 9 hours in cognate areas

School Business Management*

EDA 650, 698, 700, 704, 706, 708, 710

EDA 794 or EDA 798

Total—24 or 27 hours

Electives—6 or 9 hours from business oriented courses

Suggested courses are MGT 568, 572, 625; ACC 570; REF 712; FIN 640

***Prerequisites: EDA 600; REF 607; REF 601**

Administration of Occupational Education*

EDA 650, 700, 706, 710, 712, 717, 719; IVE 611

(21 hours from these courses)

EDA 794 or EDA 798

Total—24 or 27 hours

Electives—6 or 9 hours from the following cognate areas: Industrial Psychology, Management Training and Development, Economic Development, Advanced Labor Economics, and Economic Geography

***Prerequisites are EDA 600, 620; REF 604**

Curriculum and Supervision*

EDA 708, 720, 738; REF 632

CIE 728 or CIS 708

EDA 704 or EDA 601

EDA 794 or EDA 798

Total—21 or 24 hours

Electives—9 or 12 hours with 9 hours in cognate areas

*Prerequisites are EDA 600, 620; REF 607, EPY 740

Higher Education Administration*

EDA 704, 711, 712, 713, 715, 717, 719

CPY 640 or CPY 740

(18 hours from the above courses)

EDA 794 or EDA 798

Total 21 or 24 hours

Electives—6 or 9 hours in cognate areas

*Prerequisites are EDA 600 and REF 601

DOCTORAL DEGREES

Admission

Regular:

A minimum grade point average of 3.50 on previous graduate work and a combined score of 900 on the aptitude phase of the **Graduate Record Examinations**.

Conditional:

A grade point average between 3.25 and 3.50 on previous graduate work and a **Graduate Record Examinations** score no lower than 900 or a grade point average no lower than 3.50 and a **Graduate Record Examinations** score between 800 and 900.

Qualifying Entrance Examination

1. Must be taken prior to the completion of eighteen (18) semester hours of study within the department.
2. May not be taken prior to the receipt of satisfactory GRE scores.
3. Regularly admitted doctoral students who fail the examination may repeat it upon the completion of nine (9) semester hours of credit after the semester in which the examination was taken.
4. The results of a master's degree comprehensive examination may not be substituted for this examination.

Planning Sheet

Planning sheets are completed after the qualifying examination has been passed and the committee appointed, but before the student has completed twenty-seven (27) semester hours.

Admission to Candidacy

Admission to candidacy should be submitted one semester prior to graduation and will be approved by the student's graduate committee upon:

1. Completion of an approved program of studies.
2. Satisfaction of the language and/or statistics requirement.
3. Completion of an approved dissertation prospectus.
4. Completion of the comprehensive examination.
5. Completion of the residency requirement.

Application for Graduation Graduation is based upon:

- 1. Meeting the departmental and Graduate School deadlines for receiving completed dissertation.
- 2. Successful defense of the completed dissertation.

PROGRAMS

At the doctoral level, programs are provided in: (1) Public School Administration, and (2) Educational Administration with an emphasis in Higher Education. The general administration program provides preparation for the superintendent, other central office positions, and college teachers, while the program emphasizing higher education is designed to prepare administrators of higher education.

The doctoral program requires a minimum of eighty-four (84) semester hours beyond the bachelor's degree exclusive of the dissertation and proficiency in statistics. A minimum of thirty-two (32) semester hours must be taken on the Hattiesburg Campus. The student's doctoral committee, appointed by the Graduate Dean, will approve the selection of required courses and electives and in order to secure breadth and depth in the student's preparation program may require more than the minimum number of hours. The student's program shall include a minimum of nine (9) semester hours of graduate credit in cognate areas, preferably in the social sciences. The department defines cognate areas as those courses which broaden and complement the student's program which are outside the areas of professional education.

Each doctoral student will be required to participate in a variety of laboratory and field experiences, many of which may not be connected with specific courses.

PROGRAMS IN EDUCATIONAL MEDIA AND TECHNOLOGY

Master's Program in Educational Media and Technology

The Master of Education (MEd) program is designed for those persons who plan to serve as media specialists or who wish to obtain additional skills in the media area to facilitate their teaching or job assignment. The program meets the requirements for Mississippi AA certification as library/media specialist.

Regular admission to the program requires a minimum grade point average of 2.75 (figured on an A equals 4.0 scale) on the last two years of undergraduate study and a combined score of 750 on the Aptitude Section (Verbal and Quantative) of the **Graduate Record Examinations**.

If requirements for regular admission cannot be met, conditional admission may be granted if one of the following criteria is met: (1) a combined score of at least 750 on the **Graduate Record Examinations** and a grade point average no lower than 2.5 on the last two years of undergraduate study, or (2) a grade point average of at least 2.75 on the last two years of undergraduate study and an acceptable **Graduate Record Examinations** Aptitude score.

Curriculum Requirements

The following 6 courses (18 semester hours) are required of students pursuing the master's degree in Educational Media and Technology:

| | Hours |
|-----------------------------|-------|
| REF 601, 607, and 516 | 9 |
| REF 609 and 623 | 6 |
| REF 590 or 625 | 3 |

Students who wish to write a thesis will also complete REF 698 (6 semester hours). Non-thesis students will select four courses (12 semester hours) from the following:

Hours

| | |
|--|----|
| LS 505, 517, 518; REF 525, 526, 591, 616, 618, 620 | |
| 621, 622, 623, 625 | 12 |

Specialist's Program in Educational Media and Technology

This program leading to the specialist's degree in Education (EdS) is intended to prepare individuals for careers as media specialists, curriculum consultants, and library media directors. The program meets requirements for AAA certification in Mississippi as well as for media specialist certification in many other states. As a sixth year program, the specialist's requirements presupposes a master's degree in audiovisual media, library science, instructional technology, curriculum and research, teaching or related area, and appropriate work experience.

The specialist's degree program requires regular admittance procedures to the Graduate School, appointment of a graduate adviser, filing of an approved program of studies, and completion of a comprehensive examination.

Regular admission to the program requires a minimum grade point average of 3.25 on previous graduate work and a combined score of 800 on the Aptitude Section (Verbal and Quantative) of the **Graduate Record Examinations**.

If requirements for regular admission cannot be met, conditional admission may be granted if one of the following criteria is met: (1) a combined score of at least 800 on the **Graduate Record Examinations** and a grade point average no lower than 3.0 on previous graduate work, or (2) a grade point average of at least 3.25 on previous graduate work and an acceptable **Graduate Record Examinations** Aptitude score.

Curriculum Requirements

A minimum of twelve (12) semester hours in advanced professional education is required of all students pursuing the specialist's degree in Educational Media and Technology. Additional courses may be required to satisfy any deficiencies in the student's academic background and professional training.

Four courses twelve (12) semester hours should be selected from among the following:*

Hours

| | |
|-----------------------------|---|
| REF 601 or 602 | 3 |
| CIE 728 or CIS 708 | 3 |
| EDA 620 or 720 or 713 | 3 |
| EPY 740 or 746 | 3 |

Due to the diverse background of students seeking a specialist's degree in Educational Media and Technology, no set pattern of courses will be required in the media area. However, the courses shown below will serve as a basis for the selection of the curriculum.

Students who desire to write a thesis (REF 798) will complete five of the following courses for fifteen (15) semester hours. Those students who desire to complete a field problem (REF 794) will complete six of the following (18 semester hours):**

| | |
|---|--|
| REF 516, 525, 526, 536, 590, 591, 609, 618, 620 | |
| 622, 623, 625, 544, 545, 740 and 742 | |

RTF 577

*Appropriate substitution of other graduate education courses may be made with permission of the student's adviser.

**Substitution of other graduate media courses as well as courses in computer technology, radio, television, and film may be made with approval of the student's adviser.

Doctoral Minor in Educational Media and Technology

Students majoring in a particular field or area at the doctoral level may also wish to pursue a doctoral minor in Educational Media and Technology. The program prepares individuals for positions as media specialists and library/media directors in the public schools, junior colleges, universities, and industry.

The doctoral minor in Educational Media and Technology requires a minimum of 15 semester hours. Five courses will be completed in the areas of television production, graphics, photography, and instructional development. Specific courses will be recommended which are commensurate with the student's background of training and experience. In the event certification is a consideration, particular courses will be required.

PROGRAMS IN EDUCATIONAL RESEARCH

Master's Program in Research and Evaluation

The master of science (MS) program in Research and Evaluation is designed to provide:

- 1. salable skills in the areas of measurement, research, computer analysis, and evaluation for those persons working in the behavioral sciences;
- 2. a basis for certifying evaluators of educational and social programs;
- 3. skills for obtaining funding;
- 4. skills for conducting and reporting both cooperative and independent research and/or evaluative endeavors;
- 5. for the establishment of a fundamental core of knowledge in the areas of measurement, research, and evaluation that would assist individuals in successfully completing more advanced training in these areas.

The master's program in Research and Evaluation does not require undergraduate coursework prerequisites. Students having an interest in measurement, quantification, evaluation, and accountability are welcome to apply for this program. Opportunities will be made available to apply the skills learned in meeting current problems in the social and behavioral sciences.

In order to be admitted on a regular basis to the master's degree program in Research and Evaluation, an applicant must have a grade point average of at least 2.75 (figured on an A equals 4.0 scale) for the last two years of undergraduate study. In addition, the applicant must make a combined score of at least 800 on the Aptitude Section (Verbal and Quantitative) of the **Graduate Record Examinations**.

If an applicant does not meet the above requirements for regular admission, he/she may be admitted to the master's degree program on a conditional basis either (1) by having a combined score of at least 800 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average no lower than 2.5 or (2) by having a combined score of at least 750 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average of at least 2.75.

Curriculum Requirements

The core requirements consist of the following 6 courses (eighteen (18) semester hours).

| | |
|--|--------------|
| | Hours |
| REF 601, 602, 632, 761, 762, 770. | 18 |

In addition to completing the above courses, students must complete at least three (3) semester hours from the following:

| | |
|-----------------------------------|---|
| REF 712, 792, 810, 824, 830. | 3 |
| CSS 501 and PSY 764. | 3 |

All students must either write a thesis or complete a special problem in educational research. Three semester hours will be awarded to each activity. Students wishing to write a thesis (REF 698) will complete 6 semester hours of electives. Students completing a special problem in educational research (REF 792) will complete nine (9) semester hours of electives. Thirty semester hours are required to complete the master's program in Research and Evaluation.

Specialist's Program in Educational Research

The program leading to the specialist's degree in Education (EdS) is designed to meet those goals listed under the master's degree program. The program is intended to serve as (1) a terminal program at the specialist's level for individuals not pursuing the doctoral degree and as (2) an advanced research program for individuals desiring specialization in research in addition to their major areas at the doctoral level.

In order to be admitted on a **regular** basis to the specialist's degree program in Research Training, an applicant must have a grade point average no lower than 3.25 on previous graduate work and a combined score of at least 850 on the Aptitude Section (Verbal and Quantitative) on the **Graduate Record Examinations**.

If an applicant does not meet the above requirements for regular admission, he/she may be admitted to the specialist's degree program on a conditional basis either (1) by having a combined score of at least 850 on the Aptitude Section on the **Graduate Record Examinations** and a grade point average no lower than 3.0 or (2) by having a combined score of at least 800 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average of at least 3.25.

Curriculum Requirements

A student desiring to obtain a specialist's degree in Research Training must possess a master's degree, and complete either twenty-seven (27) or thirty (30) semester hours of course work. Twenty-seven (27) hours are required for the student who writes a thesis (REF 798) and thirty (30) hours for the student who conducts a field problem (REF 794). The student must have also completed, or be willing to complete, the following prerequisites or their equivalents: *REF 601 and *602.

The following five courses (fifteen (15) semester hours) are required of each student:

| | Hours |
|-----------------------------------|--------------|
| REF 761, 762, 770, 824, 830. | 15 |

A student who chooses to write a thesis will complete one course (three (3) semester hours) from among the following. A student who conducts a field problem will complete two courses (six (6) semester hours).

| | |
|---|--------|
| REF 792, 893. | 3 or 6 |
| PSY 764. | 3 or 6 |
| CSS 501 (Prerequisite: CSS 240 or equivalent). | 3 or 6 |

Each student must complete either REF 794 (Field Problems-3 semester hours) or REF 798 (Specialist Thesis-6 semester hours).

Students will take nine (9) semester hours of electives to complete the program.

*May be counted as electives in the specialist's degree program.

Doctoral Minor in Educational Research

Students majoring in a particular field or area at the doctoral level may also wish to pursue a doctoral minor in Educational Research. The objectives of the doctoral minor are to prepare persons to:

1. initiate or direct applied or institutional research in college, private or public agencies, and school systems;
2. teach applied statistics and research methodology in institutions of higher learning;
3. advise graduate and undergraduate students relative to the research process involved in thesis, dissertations, and projects;
4. utilize available computer packages for statistical and informational processing;
5. serve as consultant to agencies involved in research or evaluation.

A minimum of twelve (12) semester hours is necessary in addition to REF 761 and REF 762 which are required for basic proficiency of all doctoral students in education.

The following 6 graduate courses (eighteen (18) semester hours) represent the requirements for the doctoral minor:

| | Hours |
|---|--------------|
| REF 761, 762, 824, 830, 891 | 18 |
| CSS 501 (Prerequisite: CSS 240 or equivalent) | 18 |

Substitutions from the following list of courses may be made with departmental approval:

- PSY 764
- REF 770, 792, 794

DEPARTMENT OF INDUSTRIAL AND VOCATIONAL EDUCATION

The Department of Industrial and Vocational Education offers the Master of Science degree and the Specialist's degree in Industrial and Vocational Education.

MASTER'S PROGRAM

Admission

Regular:

A minimum grade point average of 2.75 and a combined score of 750 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

Departmental action provided the student has a score of 750 or above on the Aptitude Section of the **Graduate Record Examinations**, and a grade point average no lower than 2.5 or a grade point average of 2.75 or above if the **Graduate Record Examinations** score is below 750.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies consisting of a minimum of thirty (30) semester hours.
2. Satisfactory completion of the comprehensive examination.

Major in Industrial and Vocational Education

| | Hours |
|-------------------------|--------------|
| IVE 605, 607, 611 | 9 |
| IVE 692* | 3 |
| REF 601, 607 | 6 |

Electives—Twelve (12) semester hours. Subject to the approval of the department chairman, elective courses are to be taken as follows:

1. Three (3) semester hours must be taken in Industrial and Vocational Education.
2. The remaining nine (9) semester hours may be taken in related areas.

*Advanced individualized project development in the area of the student's skill specialty. Shop or laboratory experience is required.

SPECIALIST'S DEGREE**Admission****Regular:**

A minimum grade point average of 3.25 on previous graduate work and a combined score of 800 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

Departmental action provided the student has a score of 800 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average no lower than 2.75 or a grade point average of 3.25 or above if the **Graduate Record Examinations** score is below 800.

Application for Graduation

1. Completion of an approved program of studies as determined by the department chairman and which may consist of more than the minimum thirty-three (33) semester hours of credit required for graduation.
2. Satisfactory completion of the comprehensive examination.
3. Successful defense of the research project.

Major in Industrial and Vocational Education

| | Hours |
|------------------------------|--------------|
| IVE 701, 702, 703, 704 | 12 |
| CPY 714, or EPY 740 | 3 |
| REF 602 | 3 |
| IVE 794 | 3 |

*REF 601 required prerequisite

In addition to the above twenty-one (21) hour core, a minimum of four (4) elective courses for twelve (12) semester hours is required. These courses of study may be selected from the content area of interest, goal-related interest, or other cognitive areas with the approval of the department chairman.

DEPARTMENT OF PSYCHOLOGY

The department offers the Master of Arts, the Master of Science, and the Doctor of Philosophy degrees. The general requirements for master's and doctoral degrees are listed elsewhere in this **Bulletin**.

For regular admission to graduate study in Psychology, a student must: (1) have completed undergraduate foundation courses in statistics and experimental psychology as well as courses in physiological psychology, psychology of learning,

psychology of personality and the history of psychology; (2) have a **B** average or better in his undergraduate major; and (3) have a minimum total score (quantitative plus verbal) of 1,000 on the Aptitude Section of the **Graduate Record Examinations**. Students who are unable to meet these requirements will be considered for conditional admission to the program. Students seeking admission to graduate study at the post-master's level must meet the requirements for regular or conditional admission listed under Types of Admission to Advanced Graduate Study. In addition, the student may be required to come to the campus for a personal interview as a part of the application procedure for advanced standing.

MASTER'S PROGRAMS

The Master of Arts Degree in Psychology

This degree program is planned to prepare students for advanced graduate work, to teach in a junior or senior college, or to work in certain research settings.

Requirements for the Master of Arts Degree

| | Hours |
|--|-------|
| Departmental Courses: | |
| PSY 694 (2 hours), 720, 724, 727, 755, 762, 763, 779, 698 | 29 |
| Electives (All elective courses must be approved by student's major adviser.) | 9 |

The Master of Science Degree in Psychology

This degree stems from a professional-training, terminal program designed to prepare students for master's level employment in applied settings. Students may choose from two emphasis areas: (1) school psychology, or (2) mental health psychology. The program normally requires from 3 to 5 semesters of work to complete. Neither a thesis nor a foreign language is required.

Requirements for Master of Science Degree

| | Hours |
|-----------------------------------|-------|
| Departmental Courses: | |
| PSY 694 (2 hours), 755, 788 | 8 |

Requirements for an Emphasis in School Psychology

In addition to the requirements listed under Common Requirements for a Master of Science degree, the student must complete the following:

| | Hours |
|--|-------|
| Departmental Courses: | |
| PSY 562 or 768, 762 or 763, 779 or EPY 774 | 9 |
| EPY 720, 783 (2 hours), 784 | 8 |
| Non-departmental Courses: | |
| CPY 612 | 3 |
| SPE 500 and one SPE elective | 6 |

This program prepares the student for certification in Mississippi as a AA School Psychometrist. Students interested in meeting certification requirements in other states will work out with his/her adviser any additional coursework that might be required.

Requirements for an Emphasis in Mental Health

In addition to the requirements listed under Common Requirements for a Master of Science Degree, the student must complete the following:

| | Hours |
|--|-------|
| Departmental Courses: | |
| PSY 727, 733 (6 hours), 734, 735, 736, 762 or 763, 782, 787 | 27 |

Electives:

(All electives taken by the student must be approved by the student's major adviser.) 6

THE DOCTOR OF PHILOSOPHY DEGREE

Students working on a Doctor of Philosophy degree in Psychology may work in any one of the following emphasis areas: (1) general experimental psychology; (2) clinical psychology; (3) developmental psychology; or (4) school psychology. Students admitted for work in any of the areas of emphasis must have completed a master's degree with course work equivalent to that listed under Requirements for the Master of Arts degree. All students interested in applying for admission to the program are encouraged to contact the department prior to submitting their applications.

Common Requirements for the Doctoral Degree

| Departmental Courses: | Hours |
|------------------------------------|---|
| PSY 721, 898, EPY 721 | 9 |
| Foreign Language Requirement | See proficiency requirement listed elsewhere in the Bulletin . |

Doctoral qualifying examination and doctoral comprehensive examination

Requirements for an Emphasis in General Experimental Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

| Departmental Courses: | Hours |
|---|-------|
| PSY 722, 723, 725, 728 (9 hours), 764. | 21 |
| EPY 710, 712. | 4 |

Electives:

All electives must be approved by the student's major adviser and/or committee chairman 21

Requirements for an Emphasis in Clinical Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

| Departmental Courses: | Hours |
|---|-------|
| PSY 733 (9 hours), 734, 736, 737, 738, 739, 750 | |
| 780, 782 (6 hours), 784, 787, 788 | 45 |
| PSY 796 (Internship—12 hours; hours do not count toward degree) | 12 |

Electives:

All electives must be approved by the student's major adviser and/or committee chairman 12

Requirements for an Emphasis in Developmental Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

| Departmental Courses: | Hours |
|---|-------|
| PSY 722, 778, 779 (6 hours), 788. | 15 |
| EPY 774, 775, 760. | 9 |
| PSY 733 (6 hours) or PSY 733 and EPY 710, 712 | 6 |

Electives:

| | |
|---|----|
| All electives must be approved by the student's major adviser and/or committee chairman | 21 |
|---|----|

Requirements for an Emphasis in School Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

| Departmental Courses: | Hours |
|---|-------|
| PSY 734, 738, 778 or 779, 787, 788 | 15 |
| EPY 732, 772 (6 hours), 783 (3 hours), 784 (6 hours), 796 (8 hours) | 26 |
| Non-departmental Courses | |
| EDA 600 | 3 |
| REF 607 | 3 |
| CPY 760 | 3 |

Each student will work out with his adviser any additional course work necessary for certification in the state in which the student plans to work.

DEPARTMENT OF SCIENCE EDUCATION

(See page 138)

DEPARTMENT OF SPECIAL EDUCATION

The Department of Special Education offers graduate programs leading to the master's (MEd), specialist's (EdS), and the doctoral (EdD, PhD) degree. Non-majors and experienced teachers may take work leading toward certification, enrichment, or competency in areas of interest.

MASTER'S PROGRAM

The master's degree program offers several options to the student. This program is open to non-special education majors. The candidate may specialize in a specific area or may elect to combine general special education areas. In general, each program will include six (6) semester hours in Educational Research and Foundations (REF 601, 607), cognate hours, and area course requirements to total a minimum of 30 semester hours. Special Education courses in emphasis areas include:

| | Hours |
|---|-------|
| Mental Retardation—SPE 645, 671, 709, 740, 741, 743 | 18 |
| Specific Learning Disabilities—SPE 630, 631, 632, 634, 671, 709. | 18 |
| Emotionally Disturbed—SPE 654, 671, 709, 750, 751, 752 | 18 |
| Gifted—SPE 565, 671, 709, 761, 762, 764 | 18 |

SPECIALIST'S PROGRAM

The specialist's degree is granted upon completion of a specifically planned program of study leading to competency in an area of Special Education. The purpose of this program is to train highly qualified personnel in the education of exceptional children and adults. The program consists of a minimum of thirty-three (33) semester hours in a planned sequence to include the major area, cognates, research, and practicum. A field study (SPE-794) is required.

DOCTORAL PROGRAM

The doctoral program is comprehensive and places emphasis on teacher education, administration, research, and community services. (An internship is required in at least one of the above.) The candidate is expected to develop competency in each of the above areas; and the program will be based upon these as well as experience, background, and information gathered from written and oral qualifying examinations.

Required courses include:

| | |
|-------------------------|-------------------|
| Teacher Education | SPE 801, 803, 880 |
| Administration | SPE 770, 794 |
| Research | SPE 709, 791 |
| Community Service | SPE 792, 802 |

In addition, each candidate will be expected to include a minimum of six (6) semester hours with a department outside of Special Education.

Admission

All graduate degree candidates must conform to the entrance and academic requirements listed in this **Bulletin** as indicated by the School. In addition to the general requirements for admission to the Graduate School, to be admitted on a regular basis to the department, the candidate must earn a minimum score on the combined Aptitude Section of the GRE of 800 (Quantitative plus Verbal) for the master's, 850 (Quantitative plus Verbal) for the specialist's, and 900 (Quantitative plus Verbal) for the doctoral degree. A minimum of two years of professionally appropriate experience is also required for admission to the specialist's and doctoral programs. Conditional admission may be considered for applicants whose grades or GREs are marginal, but other evidence indicates a high probability of success in graduate school. In such cases, the GREs must be within 100 points of the minimal requirement for the respective degree. Details of Special Education programs may be secured from the Department of Special Education, Southern Station, Box 5115, Hattiesburg, MS 39406-5115.

COLLEGE OF FINE ARTS

Graduate Degrees 1982-1983

| Department | Major | Degree |
|---------------------------|---------------------------------|---------------------------------------|
| Master's Level | | |
| Art | Art Education | Master of Art Education |
| | Drawing and Painting | Master of Fine Arts |
| Music | Music | Master of Music |
| | Applied Music Emphasis | |
| | Church Music Emphasis | |
| | Conducting Emphasis | |
| | Music History and | |
| | Literature Emphasis | |
| | String Bass Emphasis | |
| | Theory and Composition Emphasis | |
| | Music Education | Master of Music Education |
| | | |
| Theatre and Dance | Theatre | Master of Arts Master of Fine Arts |
| | Acting Emphasis | |
| | Costume Design Emphasis | |
| | Dance Emphasis | |
| | Directing Emphasis | |
| | Scenic and Lighting | |
| | Design Emphasis | |
| | Technical Production Emphasis | |
| | | |
| | | |
| Specialist's Level | | |
| Music | Music Education | Specialist in Education |
| | Vocal-Choral Music | |
| | Education Emphasis | |
| | Elementary School Music | |
| | Education Emphasis | |
| | Instrumental Music | |
| | Education Emphasis | |
| Doctor's Level | | |
| Music | Music Education | Doctor of Music Education |
| | | Doctor of Philosophy |
| | Performance and Pedagogy | Doctor of Musical Arts |

COLLEGE OF FINE ARTS

John E. Green, Dean
Paul Andersen, Assistant Dean

The College of Fine Arts currently offers graduate degree programs at three levels: master's degree, specialist's degree, and doctoral degree. Descriptions of these programs can be located in the respective departmental sections.

Deficiencies

The College of Fine Arts retains the right to determine deficiencies in the preparation of any graduate student, regardless of the number of course credits accumulated. The College will recommend appropriate means of removing such deficiencies.

Examinations and Performance Evaluations

Some degree programs require entrance examinations and/or performance evaluations. The departmental sections following in this **Bulletin** list general requirements for each degree program. Prospective students should confer with the department chairman for full details. Approval of the graduate faculty in the appropriate department must be granted before a student will be accepted into a graduate degree program in any area of the Fine Arts.

Final comprehensive examinations at or near the completion of the course work are required for all graduate degrees. The type, scope, and dates of the examinations vary, since they are matters of individual departmental policy. Each student pursuing a graduate degree should confer with his major professor and department chairman for full particulars.

DEGREE PROGRAMS

Prescribed curricula for degree programs are listed below. Some provide great latitude and flexibility in arranging individual degree programs. Course selections must be approved by the student's major professor and graduate advisory committee. The approved course of studies for master's and specialist's degree students must be filed with the student's department chairman prior to the student's second registration. The student's major professor will assist in every way possible, but final responsibility for following all general and departmental regulations lies with the student. Prospective doctoral students must consult with the Coordinator of Graduate Studies prior to initial registration for detailed information about general and departmental regulations.

DEPARTMENT OF ART

Master of Art Education Degree

Undergraduate prerequisites for the Master of Art Education degree in the Department of Art are: (1) completion of a bachelor's degree in art education at the University of Southern Mississippi or an equivalent program, or (2) completion of any degree in the visual arts, or (3) satisfaction of Mississippi Class A teacher certification requirements in art.

Each student must demonstrate a studio proficiency appropriate to previous study by presenting a portfolio for review by the faculty and chairman of the Department of Art. The review will determine recommendations for meeting the nine (9) semester hour block in art education and studio areas. The portfolio should be submitted no later than three weeks prior to the initial registration so that proper

guidance can be given in advising. Portfolios submitted later will be reviewed after the student has been enrolled in ART 600. Deficiencies which are identified may be removed by passing the non-degree credit course ARE 600 and/or ART 600 with a grade no lower than B and/or taking course work for degree credit as prescribed by the student's major professor and graduate advisory committee.

Requirements for a Master of Art Education Degree are as follows:

| | Hours | | Hours |
|------------------------------|-------|-------------------|-------|
| AA 600 | 3 | REF 601, 607..... | 6 |
| ARE 601, 606, 625, 626 | 12 | | |

Nine (9) hours of the remaining course work must be selected in art and art education courses (art history, drawing, painting, ceramics, crafts or ARE 698-Thesis). A student choosing to pursue a non-thesis program will normally be required to take six (6) of the nine (9) hours in one discipline. The course work in lieu of the thesis must be approved by the student's major professor and graduate advisory committee.

The required minimum total is thirty (30) semester hours.

Master of Fine Arts Degree

Drawing and Painting

Appropriate departmental faculty will review all applications and provide admission recommendations.

Undergraduate prerequisites for the Master of Fine Arts degree in the Department of Art are: (1) general requirements as stated by the University and College of Fine Arts, (2) successful presentation of portfolio, (3) a baccalaureate fine arts drawing and painting degree or equivalent undergraduate major, or the number of undergraduate hours of appropriate studio work the graduate advisory committee may deem to be sufficient.

Entrance portfolios should be presented six weeks prior to registration. Deficiencies which are identified may be removed by passing the non-degree credit course ART 600 with a grade no lower than B and/or taking course work as prescribed by the student's major professor and graduate advisory committee.

Requirements for the Master of Fine Arts Degree are as follows:

| | Hours | | Hours |
|------------------------|-------|-------------------------|-------|
| AA 600 | 3 | ART 601, 602, 603 | 9 |
| ART History | 6 | ART 621, 622, 623 | 9 |
| ART 701, 702, 703..... | 9 | ART 721, 722, 723 | 9 |
| ART 760, 761, 762..... | 3 | ART 799 | 6 |

ART 799 will be a project of original creative works of high professional standard, together with a written report in which use is made of photographs or drawings or both. The student will be required to present a comprehensive exhibition of his other graduate work. The required minimum total is fifty-four (54) semester hours.

DEPARTMENT OF MUSIC

Entrance Examinations and Auditions

During the first term of residence, each prospective master's degree student must take diagnostic examinations in basic music theory and in general music history and literature. Deficiencies in basic music theory may be removed by passing the non-degree credit course MUS 620 with a grade no lower than B. Deficiencies in general

music history and literature may be removed by passing the non-degree credit course MUS 630 with a grade no lower than **B**.

Additional work for degree credit in either or both areas may be prescribed by the student's major professor and graduate advisory committee beyond the minimum required in the degree program. Students whose professional goal is either teaching music at the elementary school level or teaching vocal-choral music must demonstrate adequate proficiency in voice and in piano. Qualifying examinations are required for all advanced degrees. Details can be found in the section of this **Bulletin** describing specialist's and doctoral degrees in music.

Entrance auditions are also required for some degrees. These are:

Master of Music in Applied Music
in Church Music
in Conducting

Doctor of Musical Arts in Performance

The Master of Music in Theory and Composition and the Doctor of Musical Arts in Composition require submission of representative scores of the prospective student's compositions.

All graduate students should consult the chairman of the Department of Music for current, specific policies governing the advisement of students, the presentation of recitals, and the administration of comprehensive examinations.

Ensemble Participation

All graduate students majoring in music or in music education are required to participate in at least one ensemble during each term of residence. Credit hours earned in ensemble work will not be counted toward a graduate degree except as provided for in the Master of Music Education degree program, *q. v.*

MASTER'S DEGREES

There are two master's degrees available in the Department of Music, one with a major in music leading to the Master of Music degree, the other with a major in music education leading to the Master of Music Education degree. Emphasis areas in the Master of Music degree are: Applied Music, Church Music, Conducting, Music History and Literature, and Theory and Composition.

Regular admission procedures governing graduate entrance into the University of Southern Mississippi will be required. Details can be found in another section of this **Bulletin**.

Master of Music Degree

Applied Music

Undergraduate prerequisites: (1) completion of a bachelor's degree in music with a major in applied music at the University of Southern Mississippi or an equivalent program, or (2) completion of any other bachelor's degree in music, provided the auditioning committee is satisfied that the student is qualified both academically and in performance to pursue the Master of Music degree in applied music at the University of Southern Mississippi. A high level of performance proficiency in the major area is expected. Voice majors must demonstrate adequate knowledge of languages and diction to understand and perform the voice repertoire.

Specific areas in which this degree may be earned are:

| | | |
|-----------|--------------------|-------------|
| Trumpet | Guitar | String Bass |
| Horn | Piano | Voice |
| Trombone | Piano Accompanying | Flute |
| Euphonium | Organ | Oboe |

Tuba
Percussion

Violin
Viola
Violoncello

Clarinet
Bassoon
Saxophone

Requirements: A minimum of eight (8) semester hours in the primary applied music performance area; MUS 715 for three (3) semester hours; a minimum of three (3) semester hours in literature for the instrument chosen as the primary performing medium; and a minimum of two (2) semester hours in pedagogy of the primary performing instrument. Remaining course work must include at least three (3) semester hours in music history and literature, a minimum of three (3) semester hours in music theory beyond the undergraduate requirements and may include graduate study in appropriate related fields. The total minimum requirement is thirty-two (32) semester hours.

Students who wish to earn the Master of Music degree in Piano Accompanying follow a more structured course of studies. Requirements are: eight (8) semester hours of APM piano; accompany at least four (4) full recitals, including at least one involving piano and two or more instruments; four (4) semester hours of vocal literature and voice pedagogy; MUS 539—6 semester hours (French, German and Italian); six (6) semester hours in music history and literature, including either MUS 531 or 551; six (6) semester hours of music theory; and the remainder of the course work in approved electives.

Master of Music Degree

Church Music

Undergraduate prerequisite: Completion of a bachelor's degree with a major in church music from the University of Southern Mississippi or an equivalent program.

Requirements: The program must include MUS 559, three (3) semester hours; MUS 760, three (3) semester hours; MUS 715, one (1) semester hour; and seven (7) semester hours in the major performance area (organ, voice, or graduate conducting). Remaining course work must include a minimum of six (6) semester hours in music theory, and six (6) semester hours in music history and literature. The total minimum requirement is thirty-two (32) semester hours.

Master of Music Degree

Conducting

Undergraduate prerequisite: completion of a bachelor's degree in music or in music education from the University of Southern Mississippi or an equivalent program.

For entry into this degree program, applicants must demonstrate (1) advanced conducting competency by directing an audition-rehearsal with one of the University's major performing ensembles, (2) above average knowledge and ability in all facets of undergraduate music theory (written and aural traditional harmony, modern harmony, counterpoint, form analysis, and orchestration) by passing an entrance examination covering all areas, (3) practical knowledge of performing techniques on all instruments including voice, and (4) sufficient ability at the piano to play simple scores. Minimal deficiencies in one of the four entrance criteria will be permitted. In such a case, the prospective student may be admitted to the degree program on a conditional basis, but will be required to pursue undergraduate remedial work in the deficient area before being allowed to proceed into advanced level studies. An applicant must have experience as a member of one or more performing organizations and at least one year of conducting experience.

Requirements: A minimum of nine (9) semester hours of graduate conducting including MED 731 and 732, and advanced individual study with the conductor(s) of the University's major performing ensembles; MUS 721 or 722; 723; 731 and 732;

552 or 548; 549 or 550; at least three (3) semester hours in music history-literature; applied music study; and at least three (3) semester hours of MUS 692 in scoring and arranging. Proficiency in one or more languages is recommended. Candidates are expected to prepare and conduct at least one full-length concert with a major performing organization. The total minimum requirement is thirty-five (32) semester hours.

Master of Music Degree

Music History and Literature

Undergraduate prerequisite: Completion of bachelor's degree in music with a major in music history and literature at the University of Southern Mississippi or an equivalent program. Applicants must demonstrate reading ability in at least one foreign language, preferably German or French.

Requirements: A minimum of nine (9) hours selected from MUS 533, 534, 535, 536, 537; six (6) hours selected from MUS 731, 732, 761, 762; a minimum of three (3) hours in Analytical Techniques or other appropriate music theory courses; a minimum of eight (8) hours selected from MUS 531, 532, 540, 541, 542, 543, 546, 547, 548, 549, 550, 551, 559; 702 and 698. Special Problems (MUS 692) may be taken for credit in preparation for the thesis. REF 601 may be required by the student's major professor and graduate advisory committee. Participation in the *Collegium Musicum* will be required for a minimum of two (2) terms by all students seeking this degree. The total minimum requirement is thirty-five (35) semester hours.

Master of Music Degree

Theory and Composition

Undergraduate prerequisite: Completion of a bachelor's degree with a major in music theory and composition at the University of Southern Mississippi or an equivalent program which must have included counterpoint, orchestration, original composition, performance study throughout the program, and practical command of the piano.

Requirements: A minimum of six (6) semester hours in advanced composition (APM 691, 692, 693, 694), MUS 714 or 698, 711, 721, 722, and three (3) semester hours in applied music study. The remaining course work must include a minimum of six (6) semester hours in music history and literature. The total minimum requirement is thirty-two (32) semester hours.

Master of Music Education Degree

Undergraduate prerequisite: Completion of an undergraduate degree in teacher education which conforms to NASM requirements.

Requirements: MED 725, MUS 532, MUS 721; two (2) semester hours of APM studio study; REF 601, 607; six (6) semester hours chosen from MED 714, 740, 750, 755 756, and seven (7) semester hours chosen from either MUS 550, 552, 555, 586, MED 524, 731, 735, 736, 737, 791, or MUS 540, 548, 787, MED 539, 731, 791. The total minimum requirement is thirty (30) semester hours.

SPECIALIST'S DEGREE

Specialist's Degree in Music Education

Graduate courses are offered leading to the specialist's degree in music education with specialization in vocal-choral music education, instrumental music education, or in elementary school music education. General requirements for the degree are found in another part of this **Bulletin**. The degree program satisfies AAA certifica-

tion for the State of Mississippi, provided the student chooses to do his specialization studies for the degree in the area of his teacher's certificate endorsement. As a sixth year program the specialist's degree presupposes a master's degree in music or music education. The degree program requires regular admission procedures, entrance examinations during the first full term of residence, appointment of a graduate advisory committee, and completion of an approved course of studies designed jointly by the student, his major professor, and his graduate advisory committee. The approved course of studies must be filed with the Coordinator of Graduate Studies prior to the student's second registration for courses.

The specialist's degree requires completion of the approved program of studies containing at least thirty-three (33) semester hours beyond the master's degree. A minimum of fifteen (15) semester hours of the course work must be chosen in music education in addition to and beyond such studies in the previously earned master's degree. The remaining course work must be selected so that each of the following areas is included: (1) music history and literature, (2) music theory, and (3) applied music. The total program may also include related professional study in a cognate field. MED 798 is required for completion of the degree.

DOCTORAL DEGREES

Doctor of Music Education Degree

Doctor of Philosophy in Music Education Degree

General requirements for the Doctor of Philosophy and Doctor of Music Education (the Doctor of Music Education general requirements are the same as the Doctor of Education degree) are found in another section of this **Bulletin**. The College of Fine Arts further stipulates the following requirements.

Admission: An applicant for admission to doctoral study in music education must possess a master's degree in music education, or its equivalent, from an approved institution. Each applicant must have at least three years of successful teaching experience.

The degree programs require regular admission procedures, qualifying examinations prior to or during the first term, appointment of the major professor and graduate advisory committee, and completion of an approved course of studies designed jointly by the student and his entire graduate advisory committee.

Research Tools: Candidates for the Doctor of Philosophy degree in music education must comply with the language requirements as specified for Doctor of Philosophy candidates in this **Bulletin**. A candidate for the Doctor of Music Education degree is required to demonstrate proficiency in statistics or computer science. At the discretion of the student's graduate advisory committee, this candidate may be required to demonstrate a reading knowledge of one modern foreign language.

Degree Requirements

The following courses are required: REF 601 (or equivalent), MUS 702 (or equivalent), MED 750, 825, 826, and 898. The remaining course work will be determined by the candidate's qualifying examination, his interests, and the counsel of his major professor and graduate advisory committee. In planning this program, the following minimum distribution of graduate courses (including master's degree work) is required: Thirty (30) semester hours in music education, nine (9) semester hours in music history and literature, nine (9) semester hours in music theory, nine (9) semester hours in professional education, three (3) semester hours in applied music and performance study, and the remainder of the program in approved electives. Although this **Bulletin** states that seventy-eight (78) semester hours are required for doctoral degrees, it should be clearly understood that some candidates

will be unable to receive a degree on the basis of this minimum. The distinction implied by the degree and the traditions related to it require comprehensive knowledge and demonstration of a high degree of proficiency in the major field and related areas of study, as well as the ability to conduct advanced research.

Doctor of Musical Arts Degree

Performance and Pedagogy

Regular admission procedures governing entrance into the University of Southern Mississippi will be required. Details can be found earlier in the **Bulletin**.

Specific areas in which the DMA may be earned are:

| | | |
|------------|-------------|-----------|
| Trumpet | Piano | Voice |
| Horn | Organ | Flute |
| Trombone | Violin | Oboe |
| Euphonium | Viola | Clarinet |
| Tuba | Violoncello | Bassoon |
| Percussion | String Bass | Saxophone |

All Areas Except Composition

Acceptance of a prospective student into the DMA program assumes (1) a previously earned master's degree in performance from the University of Southern Mississippi or an equivalent degree from another approved institution, or (2) a previously earned master's degree with any other major, provided the auditioning and examinations committees are satisfied that the student is qualified both in performance and in academic areas to pursue the DMA at the University of Southern Mississippi. A high level of performance proficiency and extensive knowledge of repertoire are expected.

Students entering the DMA program will be required to present an audition. Additionally, the student will be required to take qualifying examinations prior to or during the first term of enrollment.

The DMA student will be required to take MUS 702, 731, 732, and 898. The remainder of the course work will be determined in light of the student's qualifying examination, entrance audition, his interests and/or professional goals, and the counsel of his major professor and graduate advisory committee. In planning this program, the following minimum distribution of graduate courses (including master's degree work) is required: Thirty (30) semester hours in applied music and recitals, fifteen (15) semester hours in music history and literature, nine (9) semester hours in music theory, and the remainder of the program in approved electives which may include six (6) semester hours in a cognate field of study. Three recitals will be required in addition to the entrance audition. One must be a solo recital, one a lecture recital, and the third chosen from the following options: (a) performance of a concerto with orchestra, (b) performance of a major role in an opera, (c) performance of a major role in an oratorio, (d) a full-length recital of chamber music, or (e) a second solo recital. As a general rule, not more than one doctoral recital may be presented by a candidate during any academic term, nor more than two during any nine-month period. Rare exceptions will be permitted, but under rigidly controlled procedures. See the Coordinator of Graduate Studies for details.

One language will be required in the degree. Others may be required by the major professor and graduate advisory committee.

The DMA dissertation, required for completion of the degree, consists of two parts. Part I must include all recital programs, concert programs, program notes, and lectures presented during the student's residency. Part II must be a written thesis

giving evidence of the candidate's ability to make a scholarly investigation of a limited scope.

Composition Area

Acceptance of a prospective student into the DMA program in the composition area assumes a previously earned master's degree in composition or the equivalent, provided the composition faculty and examinations committee are satisfied that the student is qualified to pursue the DMA at the University of Southern Mississippi. A high level of proficiency in composition and extensive knowledge of literature are expected.

Students applying for entrance into the DMA program in the composition area must submit a portfolio containing representative scores and/or recordings of their compositions prior to the first term of enrollment at the University of Southern Mississippi. Additionally, the student will be required to take qualifying examinations prior to or during the first term of enrollment.

The DMA student will be required to take MUS 702, 731, 732, and 898. The remainder of the program will be determined in the light of the student's portfolio evaluation, his qualifying examination, his interests and/or professional goals, and the counsel of his major professor and graduate advisory committee. In planning this program, the following minimum distribution of graduate courses (including master's degree work) is required: Thirty-nine (39) semester hours in applied composition and music theory, fifteen (15) semester hours in music history and literature, six (6) semester hours in music theory and the remainder of the program in approved electives. The student will write compositions totaling at least two (2) hours playing time. Previously written compositions lasting up to thirty (30) minutes may be accepted as part of these two hours. Compositions will be for orchestra, band, mixed chorus, solo, and ensemble music demonstrating competence in writing for all orchestral and band instruments and for the solo voice. At least one work should include synthesized sound. The music should encompass levels of difficulty from junior high school to professional standards. The composer will write commentaries for each work, including program notes and rehearsal suggestions. All works, including parts, must be in duplicative format.

One recital of the composer's works will be given, with the composer commenting on each composition.

One language will be required, chosen from French, German, or Italian.

The DMA dissertation, required for completion of the degree, will consist of the commentaries, program notes, rehearsal suggestions, individual parts and the full scores of all works composed during the student's graduate study.

DEPARTMENT OF THEATRE AND DANCE

The Department of Theatre and Dance offers programs leading to the Master of Arts and the Master of Fine Arts degrees.

To be eligible for admission, a student must have completed a minimum of twenty-one (21) semester hours of undergraduate course work in theatre or theatre related areas. Those who do not meet the minimum entrance requirements may be admitted but will be expected to take undergraduate courses to cover deficiencies. It should be emphasized that admission to the Graduate School does not imply acceptance of the student as a candidate for a graduate degree. (See general admission requirements and procedures as set forth in this **Bulletin**.)

Upon being admitted into a graduate program, the student will be assisted by the department chairman in selecting an appropriate graduate advisory committee composed of three faculty members, one of which will serve as major professor.

A written diagnostic examination during the first semester of residence is required of all students entering a master's program.

Master of Arts Degree in Theatre

The successful completion of a total of thirty-two (32) semester hours which include a thesis and its oral defense are required for this degree. Eight (8) of the required thirty-two (32) hours may be chosen from graduate courses in a related field. The student's major professor will assist him in planning the appropriate program of courses.

Master of Fine Arts Degree in Theatre

The objective of the Master of Fine Arts curriculum is to develop the educated performer by offering sound theory and intensive practical training simultaneously. Students in the Master of Fine Arts programs will elect a plan of study with specialization(s) in one or two of the following areas: acting, directing, scenic and lighting design, costume design, technical production, and dance.

For admission to the Master of Fine Arts degree program, a demonstration of performance abilities and strong letters of recommendation will be required. Directing and acting students will be required to demonstrate their proficiency in "Showcase" performance during the first semester in residence. Design emphasis students must present a portfolio for review by the faculty prior to the initial registration. If no portfolio is available, a student may be admitted on a conditional basis until an acceptable minimum proficiency is determined. Dance emphasis students must demonstrate technical and choreographic skills by audition or by submission of a video tape recording of their performance. In addition, they shall have completed a minimum of eighteen (18) semester hours of undergraduate course work in dance.

The Master of Fine Arts program requires six semesters of full-time graduate study and the completion of a **minimum** approved program of fifty-four (54) hours. It is recommended that the MFA student fulfill at least one of the required semesters by enrollment in the Repertory Theatre program. For the dance emphasis student, forty (40) hours of the minimum approved program must be in the dance. The dance emphasis student must participate in a third or fourth level dance technique class each semester of enrollment. Candidates will be required to pass an oral examination covering the area of specialization. The candidate will satisfactorily complete a creative project in his major area of emphasis and defend it orally before the Theatre Arts faculty.

**SCHOOL OF HEALTH,
PHYSICAL EDUCATION,
AND RECREATION**

**Graduate Degrees
1982-1983**

| Department | Major | Degree |
|-----------------------------|--|---|
| Master's Level | | |
| Health and Safety Education | Health Education | Master of Science |
| | Community Health Education | |
| | Emphasis | |
| | School Health Education | |
| | Emphasis | |
| Physical Education | Safety and Driver Education | |
| | Emphasis | |
| | Physical Education | Master of Science |
| Recreation | Athletic Administration and Coaching Emphasis | |
| | Recreation | Master of Science |
| Specialist's Level | | |
| Physical Education | Physical Education | Specialist in Education |
| Doctor's Level | | |
| Physical Education | Health, Physical Education, and Recreation | Doctor of Education Doctor of Philosophy |

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Walter E. Cooper, Dean
Tommy Boone, Graduate Coordinator

The School of Health, Physical Education, and Recreation offers the Master of Science, the Specialist's, the Doctor of Education, and the Doctor of Philosophy degrees. Program development is oriented toward supply and demand in the professional job market and flexibility of program requirements allows for individual career interests in planning.

The Master of Science degree is offered in the Department of Health and Safety Education, the Department of Physical Education, and the Department of Recreation. Admission to any one of these programs requires an acceptable score on the **Graduate Record Examinations**, an acceptable GPA at the baccalaureate level, and a minimum of an undergraduate minor (or its equivalent) in an appropriate* field of study.

The specialist's degree is in physical education only with a requirements of a minimum of at least thirty (30) semester hours beyond the master's degree. Consideration for admission into the program will be based upon the **Graduate Record Examinations** scores, previous academic achievement, and professional achievement.

The Doctor of Education and Doctor of Philosophy degree require a minimum of forty-eight (48) semester hours beyond the master's degree or seventy-eight (78) semester hours beyond the baccalaureate degree, excluding the dissertation. Consideration for admission will be based upon the following criteria:

- A. **Graduate Record Examinations** scores
- B. Previous academic achievement
- C. Professional achievements
- D. A personal interview before a representative committee of the School of Health, Physical Education, and Recreation graduate faculty.

All general Graduate School requirements, outlined earlier in this catalog, must be satisfied for students to progress successfully toward degrees.

*Specific competencies for admission are determined by each department.

DEPARTMENT OF ATHLETIC ADMINISTRATION AND COACHING

Teaching/Coaching Concentration Area

The Master of Science degree in Physical Education with a concentration in Coaching is designed to meet the need for specially trained athletic administrators and coaches. The purpose of this advanced degree program is to provide the theoretical and practical preparation for educators who will administer and coach in the athletic programs of today.

Minimum Course Work Requirements Without Thesis: Thirty-nine (39) semester hours

The course work without thesis consists of twenty-four (24) hours of required Physical Education courses composed of: PED 601, 680, 703, 704, 705, 742, 745, and 780.

Athletic Administration and Coaching Requirements: The course work without thesis consists of fifteen (15) hours of required Athletic Administration and Coaching courses composed of: AAC 509, 570, 670, 678, and three (3) hours of electives from Athletic Administration and Coaching courses.

Minimum Course Work Requirements With Thesis: Thirty-three (33) semester hours

The course work with thesis consists of twenty-four (24) hours of required Physical Education courses composed of: PED 601, 680, 703, 704, 705, 742, 745, and 780.

Athletic Administration and Coaching Requirements: Six (6) hours credit is awarded for thesis completion and will satisfy (6) hours of the elective (emphasis area) requirements toward the degree.

The remaining nine (9) hours shall be taken from the following courses: AAC 509, 570, 670, and 678.

This program is administered through the Physical Education Department.

DEPARTMENT OF HEALTH AND SAFETY EDUCATION

The Department of Health and Safety Education offers the following emphasis areas within the health education major which leads to a Master of Science degree.

HSE EMPHASIS AREA I—Community Health Education

Minimum course work requirement with thesis: thirty-nine (39) semester hours

Minimum course work requirement without thesis: forty-two (42) semester hours

This program of studies is designed to prepare students for professional careers in a variety of community health education programs. Although the preferred undergraduate major for entry into this program is community health education, other undergraduate majors may provide good backgrounds for this study. Students with undergraduate majors other than health education, who wish to pursue these studies, may have their credentials evaluated by the department. In general, limiting deficiencies in previous studies must be removed prior to being admitted as a regular student.

This program is generally designed for three terms of study, one term being reserved for professional internship in a community health program.

The **minimum** course work requirements with thesis are: HSE 509, 520, 611, 622, 680, 698, 710, 711, 720, and REF 602.

The **minimum** course work requirements without thesis are: HSE 509, 520, 521, 611, 622, 680, 710, 711, 720, REF 602, and six (6) semester hours of electives.

HSE EMPHASIS AREA II—School Health Education

Minimum course work requirement with thesis: thirty-two (32) semester hours

Minimum course work requirement without thesis: thirty-five (35) semester hours

This program of studies is designed to aid students in becoming master teachers in the field of health education. Students who wish to pursue these studies in preparation for teaching careers in public schools should review the teacher certification requirements of the state in which they plan to teach. Those who successfully complete these studies may also find career opportunities in certain colleges and universities.

In order to be admitted to this program of studies, students should be knowledgeable of educational theory and methodology, foundations of health science, and curriculum content in health education. In general, limiting deficiencies in previous studies must be removed prior to being admitted as a regular student.

The **minimum** course work requirements with thesis are: HSE 510, 511, 680, 698, 711, PED 701, 702, REF 602, and six (6) semester hours of electives.

The **minimum** course work requirements without thesis are: HSE 510, 511, 680, 711, PED 701, 702, REF 602, and fifteen (15) semester hours of electives.

HSE EMPHASIS AREA III—Safety and Driver Education

Minimum course work requirement with thesis: thirty-three (33) semester hours

Minimum course work requirement without thesis: thirty-six (36) semester hours

This program of studies is designed to aid students in becoming master teachers in the field of safety and driver education. Students who wish to pursue these studies in preparation for careers in public schools should review the teacher certification requirements of the state in which they plan to teach. Students who successfully complete these studies may also find career opportunities in certain colleges and universities, governmental programs, and private industries and agencies.

The **minimum** course work requirements with thesis are: HSE 680, 698, 740, 741, 742, 743, 744, 745; REF 602, 607.

The **minimum** course work requirements without thesis are: HSE 588, 680, 711, 740, 741, 742, 743, 744, 745, 746; REF 602, 607.

DEPARTMENT OF PHYSICAL EDUCATION

The Department of Physical Education offers a variety of graduate programs leading to the master's, specialist's, or doctoral degree. Also available to non-majors and experienced teachers are courses for enrichment and competency development in areas of special interest.

MASTER'S PROGRAM

Course requirements for the Master of Science degree in Physical Education include thirty-six (36) semester hours of graduate work plus any undergraduate courses deemed necessary to correct deficiencies in the student's background.

Flexibility of the degree plan affords the student many options based upon individual needs and interests. The eighteen (18) hour common requirement is composed of: PED 601, 680, 704, 705, 742, and 780 (3 hours). With the aid of the major professor an eighteen (18) hour individualized concentration is selected. Concentrations currently available are: administration, teaching/coaching, and exercise science.

SPECIALIST'S PROGRAM

The program leading to the specialist's degree has the following course requirements: REF 602, EPY 774 or 775, EDA 704, 710, PED 703, 791. The balance of the thirty (30) hours required will be directed electives chosen with the aid of the student's major professor and must include those courses in the Physical Education Master of Science core not previously taken by the candidate.

DOCTORAL PROGRAM

The Doctor of Education and Doctor of Philosophy degrees are in Health, Physical Education, and Recreation with similar concentration options as outlined in the master's program. The minimum course work for each of these degrees is forty-eight (48) semester hours beyond the master's degree or seventy-eight (78) semester hours beyond the bachelor's degree.

In addition to the General Academic Regulations and Requirements of the University, departmental requirements are:

1. Prior to completing 15 semester hours of course work, the department will require a written and oral qualifying examination. This examination is

designed to assess both the student's fitness to pursue the degree and to assist the committee in planning the student's program.

2. A written and oral comprehensive examination must be taken at or near the completion of the candidate's course work.
3. Upon the acceptance of the dissertation by the candidate's committee and at least four weeks prior to graduation, a final oral examination in defense of the candidate's dissertation will be administered by the Department of Physical Education and the committee.
4. It is strongly recommended that two years of teaching experience be achieved before the degree is conferred.

DEPARTMENT OF RECREATION

The Department of Recreation offers a program leading to a Master of Science degree with a concentration in recreation administration. Through the selection of elective courses, further specialization may be achieved in the following areas of study:

- (1) Community and Municipal Recreation
- (2) Recreation Planning and Resources Management
- (3) Therapeutic Recreation

The program provides three options for completion of degree requirements.

- (1) Thesis Option: Entails completion of a thesis and thirty-three (33) semester hours of courses. The thirty-three (33) hours includes six (6) thesis hours.
- (2) Internship Option: Entails completion of an internship, plus one (1) professional paper and thirty-three (33) semester hours of courses. The thirty-three (33) hours includes six (6) internship hours.
- (3) Coursework Option: Entails completion of thirty six (36) semester hours of courses.

Included in the thirty-three (33) to thirty-six (36) hours of courses are the following recreation core courses: REC 680, 701, 702, 703, 704 and 790. A minimum of eighteen (18) hours in courses must be at or above the 600 level.

An oral presentation and defense is required upon completion of the thesis or professional paper. All students, during their final six (6) hours or last semester of work will submit to both a written and oral comprehensive examination.

Students who have earned a baccalaureate degree in a field other than recreation and parks may be required to complete up to twelve (12) to fifteen (15) semester hours of additional course work in pursuit of the master's degree.

Further information regarding the program, options, and comprehensive examinations may be obtained from the Department of Recreation, Graduate Coordinator.

SCHOOL OF HOME ECONOMICS

Graduate Degrees 1982-1983

| Department | Major | Degree |
|----------------------------|--------------------------|-----------------------------|
| Master's Level | | |
| Family Life Studies | Child Development | Master of Science |
| | | Non-Thesis Program Emphasis |
| | Family Living | Thesis Program Emphasis |
| | | Master of Science |
| | | Non-Thesis Program Emphasis |
| | | Thesis Program Emphasis |
| Home Economics Education | Home Economics Education | Master of Science |
| | | Non-Thesis Program Emphasis |
| | | Thesis Program Emphasis |
| Institution Administration | Institution Management | Master of Science |
| | | Non-Thesis Program Emphasis |
| | | Thesis Program Emphasis |
| | | |
| Specialist's Level | | |
| Home Economics Education | Home Economics Education | Specialist in |
| | | Education |

SCHOOL OF HOME ECONOMICS

Sarah W. Gibbs, Dean

The Master of Science degree is offered in the Departments of Family Life Studies, Home Economics Education, and Institution Administration. The general requirements for the Master of Science degree are listed in the front of the **Bulletin**. The specialist's degree is offered in the Department of Home Economics Education. For detailed information concerning a specific degree program, please refer to that department in the following pages.

DEPARTMENT OF FAMILY LIFE STUDIES

The Department of Family Life Studies offers programs leading to a Master of Science degree with majors in child development and in family living. Admission to these programs requires a minimum GRE score of 750.

Graduate work in the major and minor fields of specialization must be preceded by course work sufficient to satisfy undergraduate requirements or enough related work to indicate the student's ability to do graduate work in his major and minor fields. Deficiencies in the student's background may be made up by auditing recommended undergraduate courses.

Requirements for the Master of Science degree include a minimum of thirty (30) semester hours credit with two options: a thesis or non-thesis plan.

The Thesis Emphasis requires:

REF 601 (3 hours)

CD 698 or MFL 698 (6 hours)

Major Field (9 hours)

Minor Field (12 hours)

The Non-Thesis Emphasis requires:

Major Field (18 hours)

Minor Field (12 hours).

Students who intend to pursue a doctoral degree are encouraged to write a thesis.

Upon completion of the graduate program, a comprehensive examination covering major and minor fields will be required.

DEPARTMENT OF HOME ECONOMICS EDUCATION

The Department of Home Economics Education offers the Master of Science degree and the Specialist in Education degree. These programs are designed primarily for teachers and extension home economists. Admission to the program requires a minimum GRE score of 750 for the master's program and 800 for the specialist's program.

Master's Degree

A minimum of thirty (30) semester hours of course work is required. Students have an option of a thesis or non-thesis plan.

The Thesis Emphasis requires:

REF 601 (3 hours)

HEE 607 (3 hours)

HEE 698 (6 hours)

Other HEE courses (12 hours)

Electives (6 hours).

These elective hours may be chosen from various areas by permission of the major professor.

The Non-Thesis Emphasis requires:

- HEE 607 (3 hours)
- HEE courses (12 hours)
- REF 601 (3 hours)
- Electives (12 hours).

These elective hours may be chosen from various areas by permission of the major professor.

Upon completion of the graduate program, a comprehensive examination will be required.

Specialist's Degree

This program offers the sixth year of study in home economics education and satisfies the requirements for the AAA certificate in Mississippi. The curriculum for the specialist's degree is purposely designed to be flexible so that candidates may choose courses of greatest need. In addition to the general University requirements for admission to graduate study at the specialist's level, a GRE minimum score of 800 on the Aptitude Section is required.

The specialist's degree requires the completion of at least thirty-three (33) semester hours beyond the master's degree. A minimum of nine (9) hours of Home Economics Education, REF 601, and a research problem (6 semester hours) are required. The remaining fifteen (15) hours may be chosen from home economics subject matter courses. Other courses may be selected with permission of the major professor.

DEPARTMENT OF INSTITUTION ADMINISTRATION

The Department of Institution Administration offers the Master of Science degree in Institution Management. Admission to the program requires a minimum GRE score of 750. A minimum of thirty (30) semester hours is required. Eighteen (18) hours must be in courses numbered 600 and above. The candidate has the option of a thesis or non-thesis plan.

The Thesis Emphasis requires:

- REF 601 (3 hours)
- IAD 698 (6 hours)
- Other IAD courses (12 hours)
- Minor Field (9 hours).

The Non-Thesis Emphasis requires:

- Major Field (18 hours)
- Minor Field (12 hours).

A comprehensive examination is required for both options.

COLLEGE OF LIBERAL ARTS

Graduate Degrees 1982-1983

| Department/Division | Major | Degree |
|--------------------------------|--------------------------------|-------------------|
| Master's Level | | |
| Communication (Division) | Communication | Master of Arts |
| | | Master of Science |
| | Public Relations | Master of Arts |
| Criminal Justice | | Master of Science |
| | Criminal Justice | Master of Arts |
| | | Master of Science |
| English | English | Master of Arts |
| | Creative Writing | Master of Science |
| | (MA) Emphasis | |
| | Linguistics (MA) Emphasis | |
| Foreign Language | TESOL (MA) Emphasis | |
| | Comparative Literature | Master of Arts |
| | German | Master of Arts |
| | | Master of Science |
| Geography and Area Development | Spanish | Master of Arts |
| | | Master of Science |
| | Economic Development | Master of Science |
| | Economics | Master of Arts |
| History | Geography | Master of Arts |
| | | Master of Science |
| | History | Master of Arts |
| | | Master of Science |
| Philosophy and Religion | Philosophy | Master of Arts |
| Political Science | Political Science | Master of Arts |
| | | Master of Science |
| | Public Administration Emphasis | |
| Sociology and Anthropology | Anthropology | Master of Arts |
| | | Master of Science |
| | Sociology | Master of Arts |
| Speech and Hearing Sciences | Speech and Hearing | Master of Arts |
| | Sciences | Master of Science |

| Department/Division | Major | Degree |
|-----------------------------|-----------------------------|-----------------------|
| Specialist's Level | | |
| Communication (Division) | Communication | Master of Philosophy |
| English | English | Specialist in English |
| Foreign Language | Comparative Literature | Master of Philosophy |
| History | History | Specialist in History |
| Political Science | Political Science | Master of Philosophy |
| Doctor's Level | | |
| Communication (Division) | Communication | Doctor of Philosophy |
| English | English | Doctor of Philosophy |
| History | History | Doctor of Philosophy |
| Political Science | Political Science | Doctor of Philosophy |
| Speech and Hearing Sciences | Speech and Hearing Sciences | Doctor of Philosophy |

COLLEGE OF LIBERAL ARTS

James H. Sims, Dean
Glenn T. Harper, Assistant Dean

The College of Liberal Arts offers the Doctor of Philosophy, the Master of Philosophy, the Specialist, the Master of Arts, and the Master of Science degrees as outlined on the previous pages. Please check the pages and each department for specialized fields.

With the approval of the major professor and the chairman of the major department, the student may choose a graduate minor in a cognate field, subject to the approval of the major professor and the chairman of the major department.

Various departments of the College of Liberal Arts also participate with the College of Education and Psychology in programs leading to the Master of Education degree.

For general academic requirements and regulations governing each of these degree programs, see section on **Academic Requirements**. For **specific** degree requirements, consult the appropriate department.

DIVISION OF COMMUNICATION

The interdisciplinary graduate program in Communication offers the Master of Arts, Master of Science, Master of Philosophy, and the Doctor of Philosophy degrees under the joint administration of the participating areas within the Department of Journalism; the Department of Radio, Television, and Film; and the Department of Speech Communication. The coordinator advises all candidates regarding general regulations and requirements, serves as academic adviser until committees are formed and major professors are selected, and is responsible generally for the routine administration of the academic policies established by the executive committee comprised of the participating departments.

Master's and doctoral degree candidates select an area of emphasis and curriculum from among the participating disciplines with the approval of the major professor, committee members, and the appropriate department chairman. Candidates for the Master of Arts or Master of Science Public Relations program must follow the curricula and requirements outlined below. Note the available graduate courses listed separately under Journalism; Radio, Television, and Film; and Speech Communication, as well as the Communication course descriptions.

Master's degree candidates select one of two primary concentrations: (1) speech communication, (2) mass communication; or a major in public relations. Students emphasizing mass communication or majoring in public relations are required to have prior academic training or professional experience in the mass media or public relations practice. Those not meeting the requirement can be admitted to candidacy but will be required to correct the deficiency without receiving graduate credit for the additional work.

The Doctor of Philosophy degree program is interdisciplinary and is structured in consultation with the student's doctoral committee to serve the student's individual needs. The program involves study of advanced theories of interpersonal, organizational, and mass communication research design and methodology.

Specific requirements of the various degree plans are stated below:

General

A four-course sequence in research design and methodology is required of all students seeking graduate degrees in communication. The four courses include:

COM 600-Communication Theory and Research; COM 625-Process and Effects of Mass Communication; COM 720-Introduction to Graduate Research in Communication; and COM 722-Communication Research Methods. Equivalent courses taken at another institution will be accepted.

Master of Arts

A minimum of thirty-six (36) semester hours must be completed, including thesis credit. At least twenty-two (22) of these hours must be numbered 600 and above. All candidates for the Master of Arts degree must take a comprehensive examination, submit a scholarly thesis, and defend the thesis. In addition to minimum credit and thesis requirements, the candidate must demonstrate proficiency in an approved foreign language not to be counted toward the credit hours requirement.

Master of Science

A minimum of thirty-six (36) semester hours must be completed, including thesis credit. At least twenty-two (22) of these hours must be numbered 600 and above. All candidates for the Master of Science degree must take a comprehensive examination, submit a scholarly thesis, and defend the thesis. In addition to minimum credit and thesis requirements, the candidates must demonstrate proficiency in statistics or computer science. Proficiency may be demonstrated by the satisfactory completion of six (6) hours or the equivalent of approved statistics or computer science courses not to be applied to the credit hours requirement for degree completion.

Master of Arts

Master of Science

Major: Public Relations

A minimum of forty-two (42) semester hours must be completed, including thesis and internship credit. Thirty-six (36) semester hours must be numbered 600 or above. All candidates for the Master of Arts degree with a major in Public Relations must demonstrate proficiency in an approved foreign language not to be counted toward the credit hours requirement. All candidates for the Master of Science degree with a major in Public Relations must demonstrate proficiency in statistics or computer science. Proficiency may be demonstrated by the satisfactory completion of six hours or the equivalent of approved statistics or computer science courses not to be applied to the credit hours requirement for degree completion.

Required courses for the master's in Public Relations programs are: COM 605-Interpersonal Communication; COM 609-Communication Seminar; CO, 610-Problems in Business and Industrial Communication; COM 625-Process and Effects of Mass Communication; COM 692-Special Problems; COM 720-Introduction to Graduate Research in Communication; COM 722-Communication Research Methods; COM 747-International Communication; PHI 635-Ethics. Candidates with undergraduate deficiencies must take undergraduate courses to correct the deficiency without receiving graduate credit for the additional work. Candidates with few undergraduate deficiencies are encouraged to complete a graduate minor pertinent to their area of specialized practice, e.g., social work, public administration, business administration, and criminal justice.

Master of Philosophy

The Master of Philosophy degree offered in Communication is intended primarily for a teaching career in high schools and college. It is taken after earning a master's degree or its equivalent in Communication. The general academic requirements for the Master of Philosophy degree are stated elsewhere in this **Bulletin**. The Master of Philosophy degree program in Communication follows these requirements.

Doctor of Philosophy

The minimum credit requirement for the doctoral degree is forty-eight (48) hours beyond the master's or seventy-eight (78) hours beyond the baccalaureate degree. The candidate takes rigorous written and oral comprehensive examinations and submits and defends a scholarly dissertation pertaining to the area he elects to emphasize (see section on General Requirements and Regulations).

Doctoral candidates must elect an outside minor consisting of twelve (12) hours approved by the major professor, committee members, and the appropriate department chairman. Doctoral candidates must demonstrate proficiency in basic communication research design and methodology, as well as competency in basic statistics.

SEE COURSE LISTINGS UNDER COMMUNICATION

DEPARTMENT OF CRIMINAL JUSTICE

The Department of Criminal Justice offers courses leading to a Master of Arts degree, a Master of Science degree, and graduate emphasis in the master's and doctoral degree programs of other departments.

MASTER'S PROGRAMS

Master of Arts Degree

The Master of Arts degree in Criminal Justice consists of a minimum of thirty-three (33) hours of criminal justice course work, or a minimum of twenty-four (24) hours of criminal justice course work with nine (9) hours of additional course work in an approved minor. Either sequence also requires six (6) hours of CJ 698, Thesis, for a total of thirty-nine (39) hours. The Master of Arts degree program is divided into the subfields noted below. CJ 525 and CJ 625 are required in all subfields. A student will be required normally to select a minimum of four courses from a subfield concentration and a minimum of one course from each of two other subfields in order to gain an appreciation of the interaction of criminal justice system components.

Master of Science Degree

The Master of Science degree in Criminal Justice consists of a minimum of thirty-nine (39) hours of criminal justice course work, or a minimum of thirty (30) hours of criminal justice course work with nine (9) hours of additional course work in an approved minor area, plus successful completion of a written comprehensive examination. The degree is designed to provide specialization in a designated field to meet professional needs.

General Requirements

A 3.0 grade point average must be maintained in course work in Criminal Justice as well as a 3.0 grade point average overall.

Criminal Justice Fields (Required Courses)

I. Administration of Justice

| | | |
|--------|--------|--------|
| CJ 530 | CJ 570 | CJ 640 |
| CJ 525 | CJ 625 | CJ 660 |
| CJ 560 | CJ 631 | CJ 632 |
| CJ 563 | CJ 533 | |

II. Correctional Administration

| | | |
|--------|--------|--------|
| CJ 550 | CJ 562 | CJ 650 |
| CJ 551 | CJ 580 | CJ 561 |
| CJ 552 | CJ 625 | CJ 525 |
| | CJ 530 | |

III. Approaches to Problems and Research in Criminal Justice.

| | | |
|--------|--------|--------|
| CJ 580 | CJ 530 | CJ 625 |
| CJ 571 | | CJ 640 |
| CJ 525 | | CJ 660 |

(Other courses will be added according to the student's research area).

IV. Comparative and Theoretical Criminal Justice Studies

| | | |
|--------|--------|--------|
| CJ 650 | CJ 640 | CJ 625 |
| CJ 525 | CJ 660 | CJ 630 |
| CJ 526 | CJ 530 | CJ 631 |
| CJ 562 | | CJ 626 |

V. Juvenile Justice

| | | | |
|--------|--------|---------|---------|
| CJ 525 | CJ 560 | CJ 650 | CPY 533 |
| CJ 550 | CJ 561 | CJ 660 | CPY 612 |
| CJ 551 | CJ 562 | CPY 523 | CPY 614 |
| CJ 563 | CJ 625 | CPY 532 | CPY 738 |

(Selection of the Juvenile Justice specialty entails completion of forty-eight (48) hours of course work in order to comply with state policy and federal court orders governing state employees of the Department of Youth Services. An included minor of eighteen (18) hours of course work is required in psychology, counseling psychology, or social work.)

DEPARTMENT OF ENGLISH

The Department of English offers programs leading to the Doctor of Philosophy, Master of Arts, Master of Science, and Specialist in English degrees. Within the framework of these degree programs, students may specialize in the traditional areas of English and American Literature, in Creative Writing, Linguistics, TESOL, or Composition/Rhetoric.

General academic and admission requirements for all graduate degrees are set forth in another section of this **Bulletin** and general departmental requirements are listed below. Specific requirements for the various specializations, e.g., Creative Writing, TESOL, etc., are described in information sheets available at the English Office, College Hall 210. Requirements for the Master of Arts and Master of Philosophy degrees in Comparative Literature are listed elsewhere in this **Bulletin**.

The Doctor of Philosophy

The Doctor of Philosophy degree offered by the Department of English is designed to prepare students for careers as scholars and teachers. This degree is taken after the candidate has earned a master's degree and meets all University and departmental admission requirements. The department specifies all applicants take three areas of the GRE (verbal, quantitative, advanced English) and score a minimum of 950 on the combined aptitude and 500 on the advanced test. Other departmental requirements follow.

1. A minimum of forty-eight (48) semester hours beyond the master's degree including courses in bibliography and methods and literary criticism.
2. A qualifying examination after one full semester's work.
3. Proficiency in two foreign languages.
4. A written comprehensive examination.
5. Presentation and defense of dissertation.

Precise details of the PhD program are available from the Department of English.

The Specialist in English

The Specialist in English degree offered by the Department of English is taken after earning a master's degree or its equivalent in English and is intended primarily for teaching careers in high schools and junior colleges. The Specialist in English degree currently meets the Mississippi State Department of Education requirements for AAA certification for those who already hold AA certification.

Specific requirements include the following:

1. A minimum of thirty (30) semester hours of work beyond the master's degree.
2. One full-time semester of residence, all nine semester hours of course work being taken on the Hattiesburg Campus.
3. An acceptable written thesis and an oral defense of the thesis **or** the completion of a field-based problem.
4. English 640, Bibliography and Methods of Research in English, 3 hours; English 695, Advanced Methods in English, 3-9 hours; English 790, English Colloquium, 3-6 hours; English 798, Thesis, 3 hours (for thesis **or** a field-based problem).
5. At least nine (9) hours of course work must be taken in **one** of the following areas:
 - a. British Literature before 1700.
 - b. British Literature between 1700 and 1900.
 - c. American Literature before 1900.
 - d. Literature of the Twentieth Century.
 - e. Creative Writing.
 - f. Linguistics.
 - g. World Literature.
 - h. Composition/Rhetoric
6. A maximum of nine (9) semester hours of course work may be taken in a related field outside the English Department. (Workshop and conferences credits may apply.)

The Master of Arts

Requirements for the Master of Arts degree include the following:*

1. A minimum of thirty (30) semester hours of graduate credit including at least twelve (12) hours in an area of concentration such as English Literature, American Literature, Linguistics, Creative Writing, or Comparative Literature. A minimum of fifteen of the thirty hours must be taken at the 600-level or above with six in the area of concentration; however, English 714, 715, and 792 may not be used to satisfy this requirement.
2. English 506 (with approval, another linguistics course may be substituted) and English 640.
3. Foreign Language proficiency. (See the appropriate section of the **Bulletin**.)
4. Thesis (six hours credit).
5. An oral examination on the thesis and the related area of concentration.

* Candidates desiring AA certification must include, in addition, REF 601 and REF 607.

The Master of Science

Requirements for the Master of Science degree include the following:

1. A minimum of thirty (30) semester hours of graduate credit including at least eighteen (18) hours in English and American Literature with one course

from at least five of the following categories: Old and Middle English Literature; Renaissance Literature; Restoration and Eighteenth-Century Literature; Nineteenth-Century Literature; Modern British and Modern Continental Literature; American Literature; Beginnings to 1900; and American Literature: 1900 to present.

A minimum of fifteen of the thirty hours must be taken at the 600-level or above. English 714, 715, 791, and 792 may not be included in these fifteen hours.

2. English 502 or English 506 (with approval, another linguistics course may be substituted) and English 640.
3. An optional six (6) hours of electives in related fields outside the Department of English. (REF 601 and REF 607 must be taken if AA certification is desired.)
4. A comprehensive examination which may be either written or oral.

DEPARTMENT OF FOREIGN LANGUAGES

Candidates may study toward the attainment of either the Master of Arts or the Master of Science degree in French, German, or Spanish. Applicants for admission to the graduate program in this department should be able to demonstrate advanced undergraduate knowledge of an appropriate foreign language. Those intending to emphasize literature should have already engaged in systematic study of the literature of some linguistic area.

Master of Arts

All students are expected to complete the following requirements:

1. A minimum of thirty (30) hours of graduate credit, eighteen (18) hours of which must be at the 600 level or above.
2. Proficiency in a second foreign language.
3. A comprehensive written examination on the student's academic program.
4. A thesis which will confer six hours credit within the minimum hourly requirements.
5. An oral examination on the thesis.

On special advisement, courses in comparative literature may be counted toward the major. (See Comparative Literature.) No minor is necessary. If a minor is elected, it consists of nine (9) to twelve (12) hours of course work within the minimum hourly requirements.

Master of Science

All students are expected to complete the following requirements.

1. A minimum of thirty (30) hours of graduate credit, fifteen (15) hours of which must be at the 600 level or above.
2. An academic minor consisting of nine (9) to twelve (12) hours of course work within the minimum hourly requirement.
3. A comprehensive written examination on the student's academic program.

On special advisement, courses in comparative literature may be counted toward the student's major or minor. (See Comparative Literature.)

CURRICULUM IN COMPARATIVE LITERATURE

The interdepartmental curriculum in Comparative Literature offers a program of study leading to the degrees of Master of Arts or the Master of Philosophy. Responsibility for the curriculum is shared by the Department of English and the Department of Foreign Languages. Students beginning work in the program should have command of two languages, one of which may be English. The aim of the cur-

riculum is to prepare students to deal intelligently and originally with a variety of literary documents, with theoretical and practical problems in the study of literature, and with the relationships of literature to other forms of art and other aspects of culture.

Requirements for the **Master of Arts** degree include successful completion of the following:

1. Thirty-three (33) hours of graduate credit, eighteen (18) of which are numbered 600 or above, to include:
 - a. Twelve (12) hours in the literature of one language, ancient or modern.
 - b. Six (6) hours of thesis.
 - c. Fifteen (15) hours in comparative literature and in approved related disciplines, e.g., the literature of another language, art, music, philosophy, history, linguistics.
2. An examination covering the student's specific course of study.
3. A thesis and a final defense of the thesis.
4. Graduate School requirements for proficiency in a foreign language. (The language chosen as a research tool may not be one of the two languages of the student's curriculum.)

Master of Philosophy

Requirements for the Master of Philosophy degree include successful completion of the following:

1. Sixty (60) hours of graduate credit, thirty (30) of which are numbered 600 or above, to include approximately the following courses:
 - a. Twenty-one (21) hours in the literature of one language.
 - b. Twelve (12) hours in the literature of a second language.
 - c. Six (6) hours in the literature of a third language.
 - d. Eighteen (18) hours in comparative literature and approved related disciplines.
 - e. Three (3) hours of thesis.
2. A residency requirement of one semester of full-time work on the Hattiesburg Campus.
3. An examination covering the student's course of study.
4. A thesis and a final defense of the thesis.

DEPARTMENT OF GEOGRAPHY AND AREA DEVELOPMENT

The Department of Geography and Area Development offers the following graduate degree programs:

1. Master of Arts and Master of Science in Geography
2. Master of Science in Economic Development
3. Master of Arts in Economics

The department features coursework in fundamental geographic skills, planning, and economic development and the opportunity for advanced study and research in a broad variety of systematic, technical, and regional fields. Study concentration available which reflect faculty interest and competency include: urban geography; community and regional planning; environmental planning; economic geography; land use; economic development; cultural and population geography; applied physical geography; and geographic techniques and methods emphasizing cartography, computer skills, and remote sensing.

The department also coordinates the Master of Arts program in Economics for the College of Liberal Arts.

The student is held responsible for all graduate regulations. The student's major professor will help in any way possible, but the student is expected to know what is required and to take full responsibility. General academic requirements are explained fully earlier in the **Bulletin**; departmental requirements are listed below.

MASTER'S PROGRAMS IN GEOGRAPHY

Programs falling under both the MA and MS are designed to prepare students for further graduate study and for employment in such areas as planning, area development, business, government service, or teaching. Participation in an internship program is generally available to all departmental graduate students, but particularly to those pursuing a master's planning concentration in geography or the economic development degree. Prospective students should be prepared to spend up to two years completing all degree requirements: progress may be accelerated by taking advantage of the summer sessions.

Curriculum Requirements

1. A minimum of thirty-six (36) semester hours in graduate level geography courses with at least eighteen (18) hours of work in courses at the 600-level. With the approval of the major professor, the student has an option of taking (outside the department) up to twelve (12) semester hours of cognate courses within the minimum hourly requirements.
2. GHY 610. This course should be taken the first time it is offered during the student's residence.
3. Demonstrated proficiency in cartography, quantitative methods, field methods, and one other techniques course in geography. Proficiency is generally established (on an individual basis) by evidence of satisfactory completion of coursework emphasizing these techniques sometime in the student's academic career, at either the graduate or undergraduate level. GHY 410 (510), 411 (511), 412 (512), 416 (516), or 612 may be used to satisfy the "other techniques" requirement.
4. A thesis, which will confer six (6) semester hours credit to be counted as part of the total minimum hourly requirements for the degree. Except under unusual circumstances, the student will be expected to have his thesis proposal submitted and approved no later than the end of his second semester of residence.
5. An oral examination on the student's academic program and an oral defense of the thesis.

Other Specific Requirements

In addition to the above, the following requirements are specified for those students working respectively, for either the Master of Arts or the Master of Science degrees in Geography (credit hours taken in satisfaction of **either** requirement cited below may not be applied toward the minimum requirements for the degree).

Master of Arts

A reading knowledge of one approved foreign language. Proficiency in a foreign language may be established either by: (1) completion of nine (9) semester hours of an approved foreign language with a grade of **C** or better or (2) by satisfactorily passing the Princeton Examination in that language. Transfer credit will be evaluated on an individual basis. All evaluation related to this requirement will be accomplished by the University's Department of Foreign Languages.

Master of Science

Demonstrated proficiency in statistics or in a computer-programming language suitable to the degree program, research, and/or career needs of the candidate. Proficiency is normally obtained by satisfactorily completing the two-course sequence of GHY 515 and GHY 516 but other sequences such as a combination of CSS 240 with CSS 501, 670, or 681 may be selected in consultation with the departmental advisor. Undergraduate or transfer credit will be evaluated by the department on an individual basis.

Master of Science Program in Economic Development

A major feature of this program is that it is offered with the Mississippi Research and Development Center. Staff, facilities, and other resources of both institutions are utilized. Courses are primarily at the USM Hattiesburg Campus as well as at the Mississippi Research and Development Center in Jackson.

A fundamental purpose of the program is to assist the student in acquiring competence in the application of the concepts, skills, working tools, and creative approaches so essential to those involved in contemporary economic development, whether at the national, regional, or community level.

Except under extenuating circumstances, new full-time degree-seeking students are accepted only in the fall semester. Entering students are expected to have satisfactorily completed (C or better) the equivalents of one year of basic economics and one year of elementary college-level statistics although, under certain circumstances, these prerequisites may be satisfied concurrently with enrollment in the program.

Curriculum Requirements:

1. Successful completion of a minimum of forty-two (42) semester hours in graduate level courses as follows:
 - a. Twenty-four (24) hours of prescribed core courses (GHY 551, 653, 654, 656, 657, 658, and 666).
 - b. Satisfaction of the departmental requirement for demonstrated proficiency in statistics or computer programming (see Master of Science requirement under geography).
 - c. Nine (9) hours of career-specific or elective minor courses taken from one of the following disciplines:

| | |
|---------------------------------|-------------------|
| Accounting | Finance |
| Community and Regional Planning | Geography |
| Computer Science | Management |
| Economics | Political Science |
| Environmental Science | Sociology |
 - d. Six (6) hours of thesis.
 - e. Three (3) hours of the GHY 691 internship (additional internships may be feasible but do not count as part of the total credit hour requirements).
2. An oral comprehensive examination of the student's academic program and an oral defense of the thesis.

Master of Arts Program in Economics

The Master of Arts degree in Economics is available through the College of Liberal Arts. The program is coordinated by the Department of Geography and Area Development.

This degree program is available to individuals desiring to do advanced work in Economics but who have not satisfied the undergraduate prerequisites for the Master of Business Administration. The purpose of the degree is to prepare students

for positions as economists in education, business, or government, or to prepare them for doctoral work in economics at another university.

The candidate for the Master of Arts in Economics is required to minor in a discipline of his choice in the College of Liberal Arts. Proficiency in a foreign language and a thesis are also required. Language proficiency is determined as under the Master's Programs in Geography cited above. The student's thesis and examination committee will consist of two members from the Department of Economics and one from the minor department; the major professor will be an economist.

To promote scholarship, fellowship, and the advancement of economics, all graduate students in Economics are encouraged to participate in the activities of the Economic Society, a student organization. Graduate students who qualify may be offered membership in Omicron Delta Epsilon (Artus), the national honorary economics society.

Curriculum Requirements

| | Hours | | Hours |
|---------------------------------------|-------|------------------------------|-------|
| ECO 606, 608, 620, 630, 670 | 15 | Minor Requirements | 12 |
| ECO 610 or 692 | 3 | Thesis | 6 |
| | | Total | 36 |

DEPARTMENT OF HISTORY

The Department of History participates in programs leading to the degrees of Master of Arts, Master of Science, Specialist in History, and Doctor of Philosophy.

General Regulations:

The student is held responsible for following all graduate regulations. The student's major professor will help in any way possible, but the student is expected to know what is required and to take full responsibility. The procedure is explained fully in another part of this **Bulletin**.

MASTER'S PROGRAMS

Admission Requirements:

The department requires a combined score of 750 on the Aptitude Phase of the **Graduate Record Examinations** with a minimum score of 375 on the verbal section. See the **Academic Requirements** section of this **Bulletin** for other general requirements. In addition to the Graduate School criteria for regular admission, students whose native language is not English must also score at least 550 on the TOEFL examination. The department presumes that applicants who have fulfilled these requirements possess an adequate knowledge of written and spoken English. If, upon the student's arrival at the University, it is determined that he does not possess an adequate command of English, the department reserves the right to require appropriate remedial courses.

Master of Arts

All students are expected to complete the following requirements:

1. A total of thirty (30) semester hours in history with eighteen (18) hours in courses numbered over 600.
2. HIS 710 at its first offering by the department.
3. HIS 740 recommended for all graduate students in American History.
4. A reading knowledge of one foreign language.
5. With the approval of the major professor the student may take a nine (9) hour minor within the minimum hourly requirements.

6. A thesis which will confer six (6) hours credit within the minimum hourly requirements.
7. After satisfactory completion of the course work and the thesis, the student will take a comprehensive oral examination.

Master of Science

All students are expected to complete the following requirements:

1. A total of thirty-three (33) semester hours with eighteen (18) hours of work in courses numbered above 600.
2. HIS 710 at its first offering by the department.
3. HIS 740 recommended for all graduate students in American History.
4. An outside minor of nine (9) hours within the minimum hourly total of thirty-three (33) semester hours is optional.
5. A thesis (optional)
6. After satisfactory completion of the course work, the student will take a comprehensive oral examination.

Master of Science for Secondary School Teachers

In addition to the general admission requirements, applicants must have a Class A teaching certificate in social studies. This program, designed specifically for secondary school teachers, meets the requirements for AA certification. In lieu of the regular MS requirements outlined above, students must complete the following requirements:

1. A total of thirty-three (33) semester hours with eighteen (18) hours of work in courses numbered above 600.
2. Twenty-four (24) hours in history which must include HIS 509, 558, 710, 740, and either 717 or 718.
3. An outside minor of nine (9) hours which must include REF 607, a course in world economic geography, and a political science course.
4. After satisfactory completion of the course work, the student will take a comprehensive oral examination.

Fields

The Department of History offers the following areas of concentration for the Master of Arts and Master of Science degrees:

- I. United States History
- II. European History
(This area may include Continental European History Since 1789, British History, and Modern Russian History)
- III. Latin American History

All MA students and those MS students not seeking AA certification must, on the oral examination, demonstrate proficiency in one primary area of concentration and one secondary area. Two members of the examining committee will represent the primary area and one member will represent the secondary area. United States History and European History may be selected as either primary or secondary areas. Latin American History may be selected only as a secondary area. The nature and scope of the material to be included from each area will be determined by the student with the agreement of his/her graduate committee.

The MA student should successfully complete fifteen (15) hours of course work in the primary area and six (6) hours in the secondary area in addition to History 710 and the six hours of thesis work.

The MA thesis must be written in the primary area of concentration. A student may write a thesis in Latin American History if permission to do so is granted by the department.

The MS student not seeking AA certification should take twenty-one (21) hours of course work in the primary area and nine (9) hours in the secondary area in addition to History 710.

Students planning to pursue a doctoral degree must write a thesis and should enroll in the MA program.

THE SPECIALIST IN HISTORY

The Specialist in History degree offered by the Department of History is taken after earning a master's degree or its equivalent in History and is intended primarily for teaching careers in high schools and junior colleges. The Specialist in History degree currently meets the Mississippi State Department of Education requirements for AAA certification for those who already hold AA certification.

Admission Requirements:

1. A master's degree or its equivalent in social studies. Those students seeking AAA certification must hold AA certification in social studies.
2. A grade point average of 3.25 on all previous graduate work.
3. A combined score of 800 on the aptitude phase of the **Graduate Record Examinations**.

Degree Requirements:

1. A minimum of thirty-three (33) hours beyond the master's degree, eighteen (18) of which must be at the 600-level or above.
2. A residency requirement consisting of one semester of full-time work on the Hattiesburg Campus.
3. A 3-hours thesis in the student's area of concentration with an oral defense of the thesis.
4. A minimum of eighteen (18) hours in history.
5. A minimum of 9 hours in social studies.
6. An optional 6 hours of the required thirty-three (33) hours in related fields outside social studies.

DOCTORAL PROGRAM

Admission Requirements

The department requires a minimum grade point average of 3.5 on all graduate work and a combined score of 900 on the Aptitude Phase of the **Graduate Record Examinations**. Exceptions to these requirements may be made of those students who have received Master of Arts degrees from the University of Southern Mississippi, provided they receive a GRE score of 800, a unanimous recommendation by their Masters of Arts committees, and approval by a majority of the members of this department. Students so accepted will be classified "conditional," which status is removed by achieving a 3.5 average in twelve (12) hours work during the first two semesters.

A minimum of seventy-eight (78) semester hours of course credit beyond the baccalaureate degree, which includes a minimum of three research seminars—two in the field of the major and one in the departmental minor—and HIS 710 and 740 must be taken by all students.

Major and Minor Requirements

The department offers the Doctor of Philosophy degree in U.S. History and in European History Since 1789. If a candidate seeks a doctorate in U.S. History, he must demonstrate proficiency in all of American History. In addition he must demonstrate proficiency in either European History from 1789-1870 or European History from 1870 to Present. He must also demonstrate proficiency in one of the following fields: Medieval, Latin American, British History 1485-1760, or British History 1760 to Present, one of the European fields not selected above, or a specialized field such as Russian History with the consent of the major professor and the graduate committee. He is required also to develop an outside minor in one of the social sciences or humanities in which he will take twelve (12) semester hours of work.

If a candidate majors in the field of European History, he must major in the period of Europe Since 1789. He must demonstrate proficiency in either American History to 1865 or American History Since 1865. He is also required to demonstrate proficiency in one of the following fields: Medieval, Latin American, Britain 1485-1760 or Britain, 1760 to Present, one of the American fields not selected above, or a specialized field such as Russian History with the consent of the major professor and graduate committee. In addition, he must establish an outside minor of twelve (12) semester hours in any one of the fields of social sciences or humanities. The minor in either case should be decided after consultation with the candidate's major professor and his graduate committee.

Language Requirement

Each prospective candidate for the doctoral degree must demonstrate proficiency in French and in German during his period of residence for the Doctor of Philosophy degree. Upon the recommendation of the major professor and the approval of the graduate committee, some other language may be substituted for either French or German. The first language must be completed before the start of the second year of graduate study, and the second language in the semester before the general comprehensive examinations are taken.

Doctoral Committee:

An information sheet regarding the appointment of a doctoral committee and doctoral examinations is available in the Department of History.

Dissertation

A dissertation is expected to be a mature and competent piece of writing, embodying the results of significant and original research on a subject chosen by the candidate and approved by the major professor and the graduate committee.

Upon completion and approval of the dissertation, the candidate is expected to stand satisfactorily a final examination on the dissertation and the field in which the dissertation lies.

DEPARTMENT OF PHILOSOPHY AND RELIGION

The Department of Philosophy and Religion offers a course of study leading to the Master of Arts degree with a major in Philosophy, and a graduate minor in either Philosophy or Philosophy and Religion.

MASTER'S DEGREE PROGRAM

In addition to the general admission and academic requirements for all graduate programs as set forth in this **Bulletin**, candidates for the Master of Arts degree with

a major in Philosophy shall also be required to fulfill the following:

1. A total of thirty (30) semester hours of credit, with at least eighteen (18) hours of that work in courses numbered 600 and above.
2. A thesis, for which the student receives six (6) hours credit toward the thirty (30) total required hours.
3. A comprehensive examination, normally taken after the completion of all formal course work but before the thesis is officially begun. The comprehensive examination is intended to test the student's general competence in philosophy.
4. An oral examination on the completed thesis. During the oral examination, the student will be expected to be able to explain and defend the ideas presented in the thesis.
5. A reading knowledge of one foreign language.
6. Optional Minor: With the approval of the director of graduate studies, a student may have a minor (including religion), consisting of nine (9) semester hours in a (single) field which is related to the student's philosophical interests. Three (3) semester hours of that minor may then be counted toward the thirty (30) total required hours.

DEPARTMENT OF POLITICAL SCIENCE MASTER'S DEGREE PROGRAM

Master of Arts

Requirements for the Master of Arts degree include: thirty (30) semester hours of course work, including a thesis, and a twelve (12) hour minor (optional). A reading knowledge of one foreign language is also required.

Master of Science

Requirements for the Master of Science degree include: thirty-three (33) semester hours of course work, including an outside minor of nine (9) hours. A thesis is optional.

Master of Science with an Emphasis in Public Administration

Requirements for the Master of Science with an emphasis in Public Administration include: twenty-four (24) semester hours of course work in public administration and political science and a minor of nine (9) hours in an administrative area. A thesis is optional.

Master of Philosophy

The Department of Political Science offers work leading to the Master of Philosophy degree. See elsewhere in this **Bulletin** for the general requirements.

Course Requirements in the Major

Graduate students who expect to receive the Master of Arts degree will select three fields in political science in which to concentrate their course work. Graduate students who expect to receive the Master of Science degree will, in addition, select an outside minor, with the advice and consent of their committee.

The fields of Political Science and the courses in each field are:

Political Theory and Methodology

520, 521, 525, 720, 721, 723

American Government and Politics

501, 502, 504, 506, 507, 508, 509, 700, 710

International Relations

531, 532, 534, 535, 730, 731

Comparative Government and Politics

550, 551, 552, 553, 555, 556, 557, 558, 559, 750, 751, 793

Public Administration

571, 572, 573, 574, 770

Public Law

580, 581, 582, 584, 585, 589, 781

Comprehensive Examination

A written and oral comprehensive examination will be given at or near the end of the course work on the three fields of concentration and on the minor, if applicable.

Courses Accepted from Other Departments

The following courses will be accepted as political science for purposes of completing a major or minor if approved by the student's adviser.

ECO 501, HIS 512, 545, 546, 556, 557

DOCTORAL PROGRAM

In addition to the general requirements listed above in this **Bulletin**, the Department of Political Science makes the following specific requirements.

A. Two research tools are required: competency in two foreign languages; competency in one foreign language and data processing or statistics. Determination of the research tool requirements should be made by the student's doctoral committee. A dissertation based on scholarly research in original sources is required.

B. A Graduate Planning Curriculum Conference will be held for each student entering doctoral work, preferably during the first semester.

Course Requirements in the Major

Doctoral candidates must specialize in four fields of political science and one outside minor. (The fields and courses are listed under the master's program above.)

Comprehensive Examination

At the end of the course work, and following successful completion of the research tool requirement, a written and oral comprehensive examination will be taken in the four fields of the major, and, at the student's doctoral committee's discretion, in the minor. Should the student fail the comprehensive examination in one or more fields a re-examination may be given by the department following a lapse of two semesters, or when the student has taken sufficient remedial work to warrant re-examination. Should the student fail the second examination, he will not normally be allowed to continue graduate work in the department.

**DEPARTMENT OF SOCIOLOGY AND
ANTHROPOLOGY**

The Department of Sociology and Anthropology offers graduate work leading to the master's degree in sociology or anthropology and a minor in the master's and doctor's degree program of other departments.

MASTER'S PROGRAM IN SOCIOLOGY

General regulations governing admission to the Graduate School, requirements of the College of Liberal Arts, and requirements for admission to candidacy for degree are to be found elsewhere in this **Bulletin**. The graduate student should familiarize himself with these requirements and assume responsibility for their discharge.

The major professor will work out a program of study with each student electing to do graduate work in Sociology.

If the student is uncertain as to whether he has satisfied undergraduate course prerequisites for any particular course, he should consult the instructor for clarification.

In the major area, the Department of Sociology and Anthropology offers only the Master of Arts degree. General requirements correspond to the requirements of the University and its Graduate School. Policies of admission to the University, admission to the Graduate School, admission to candidacy for degree, and grading standards conform to those laid down by the University.

Master of Arts Requirements

Twenty-seven (27) semester hours in Sociology (including six (6) hours of thesis credit).

Nine (9) semester hours in a minor subject approved by the Department of Sociology.

At least half of the hours must be in courses numbered 600 or above.

Reading knowledge of one foreign language or proficiency in statistics and/or computer science as determined by the student's committee.

A thesis to be approved by the major professor.

A written comprehensive examination.

An oral examination by the student's committee to be based on the thesis, the major, and the minor.

MASTER'S PROGRAM IN ANTHROPOLOGY

The Department of Sociology and Anthropology offers programs within the College of Liberal Arts leading to the Master of Arts or Master of Science degree in Anthropology. Requirements for these degrees as follows:

Master of Arts

A minimum of thirty-three (33) semester hours, eighteen (18) of which must be earned in course work at the 600 level or above; acceptable proficiency in one foreign language; and completion of an approved thesis. An outside minor of nine (9) semester hours in an approved related field may be included toward the total hours required.

Master of Science

A minimum of thirty-three (33) semester hours, eighteen (18) of which must be earned in course work at the 600 level or above; acceptable proficiency in statistics; and completion of an approved thesis. An outside minor of nine (9) semester hours in an approved related field may be included toward the total hours required.

The Department of Sociology and Anthropology also offers a graduate minor in Anthropology for students in the master's and doctor's degree programs of other departments.

DEPARTMENT OF SPEECH AND HEARING SCIENCES

The Department of Speech and Hearing Sciences offers programs leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. An earlier section of this **Bulletin** covers the specific requirements for these degrees. At the master's level, emphasis is possible in three principal areas: (1) speech/language pathology, (2) audiology, and (3) education of the deaf. The program of study at the doctoral level is planned with emphasis in one of three principal areas: (1) speech/language pathology, (2) audiology, and (3) speech and hearing sciences.

Effective Fall Semester 1982, the Department of Speech and Hearing Sciences accepts new students for the master's program in Speech/Language Pathology or Audiology prior to each registration period. Each applicant will state in writing that he/she will be a full-time student and understands that only full-time students (registered for 9 semester hours) will be permitted to work in the Clinic.

MASTER'S PROGRAM

Potential graduate students should refer to other sections of the **Bulletin** for information regarding admission requirements as set forth by the Graduate School and the College of Liberal Arts. A major in Speech and Hearing Sciences at the master's level requires a minimum of thirty-four (34) semester hours. The Master of Arts degree requires a thesis, four semester hours of clinical practicum and no less than eight three-semester hour courses. The Master of Science degree requires four semester hours of clinical practicum and no less than nine three-semester hour courses. A thesis is optional for the Master of Science degree.

Master's Degree with Emphasis in Audiology

The master's degree with an emphasis in audiology is a clinical degree designed to meet the academic and practicum requirements for the Certificate of Clinical Competence in Audiology awarded by the American Speech and Hearing Association. Programs for students seeking this degree are arranged with the candidate's academic adviser.

Master's Degree with Emphasis in Education of the Deaf

The program leading to the master's degree with an emphasis in education of the deaf is individualized to the needs of the student. The program is certified by the National Council for Accreditation of Teacher Education (NCATE). This certification is reciprocal among approximately 40 states. Specialization in education of the deaf may be pursued in a number of areas including preprimary, elementary (grades 1-8), secondary, secondary special subject, or a specialty area. Selection of specialization areas is governed by the candidate's background, interests, and employment objectives.

The master's degree program enables a student to qualify academically for a master's degree teaching certificate. However, some states may impose other requirements prior to an individual's obtaining compensation at the master's level. Beginning September 1981, Mississippi will require a teacher to have two years of experience before being compensated at the master's degree level. Thus a person holding a master's degree but with no teaching experience must be paid at the bachelor's level until two years' experience has been obtained.

Requirements differ from state to state and it is the responsibility of the student to be aware of these differences.

Master's Degree with Emphasis in Speech/Language Pathology

The master's degree with emphasis in speech/language pathology is a clinical degree designed to meet the academic and practicum requirements for the Certificate of Clinical Competence in Speech Pathology awarded by the American Speech and Hearing Association. Unless other arrangements are made with the faculty of the Department of Speech and Hearing Sciences, the following courses are to be taken by candidate's for the master's degree in this emphasis area:

SHS 513, 516, 517, 601, 612, 694 or 695, 696, 702, 712, 716, 719, 761.

A student in speech/language pathology must serve a clinical internship at a selected off-campus site at the discretion of his adviser and in conjunction with his background and professional interests.

DOCTORAL PROGRAM

Potential doctoral students will be advised individually by the department faculty. Programs are devised in accordance with the applicant's background, interests, and professional objectives. Applicants for the PhD program in Speech and Hearing Sciences are urged to become familiar with portions of the **Bulletin** which deal with admission, academic, and residency requirements.

ACCREDITATION

The master's degree programs in speech/language pathology and audiology are accredited by the Education and Training Board, American Boards of Examiners in Speech Pathology and Audiology. The USM Speech and Hearing Clinic is accredited by the Professional Services Board, American Boards of Examiners in Speech Pathology and Audiology.

SCHOOL OF LIBRARY SERVICE

Graduate Degrees

1982-1983

| Department | Major | Degree |
|-----------------|-----------------|------------------------------|
| Library Science | Library Science | Master of Library Science |

SCHOOL OF LIBRARY SERVICE

Onva K. Boshears, Jr., Dean
Joseph J. Mika, Assistant Dean

The School of Library Service at the University of Southern Mississippi was established on July 1, 1976, as a professional school. Prior to this date, the academic program in librarianship was under the College of Education and Psychology. Since the first master's degree in Library Science was awarded in 1965, the program has continued to grow and develop into a truly comprehensive instructional program for all students who plan to become professional librarians in public, school, academic, or special libraries. For the general University graduate student, the School offers a variety of course offerings for acquiring skill in the scholarly use of library resources as research tools. Finally, the School performs a vital role in the continuing development and expansion of library services at all levels in the State of Mississippi as well as providing continuing education for practicing librarians.

The graduate curriculum in Library Science provides instruction in the following areas of librarianship: reference, cataloging and classification, selection and acquisition, administration, bibliography, non-print media, history of the book, libraries, printing and publishing, library programs for children and youth, and library automation and information science.

Providing prospective librarians with professional knowledge and skills for effective library service, however, is not the only objective of the School. The faculty believes that professional education should also be concerned with fostering those attitudes and understandings which will help students develop an appreciation of the changing role of the library in society. The library profession will flourish only as students are prepared to participate intelligently in the process of relating library services to the larger social and cultural needs of contemporary society.

ACCREDITATION

The School of Library Service is accredited by the American Library Association. The School is also an institutional member of the American Library Association, Association of American Library Schools, Mississippi Library Association, and the Southeastern Library Association.

Purpose of the Master's Program in Library Science

The purpose of the Library School is to educate students for professional roles in librarianship and related areas who will be responsive to the changing needs of a free and open society, and to the aims of their chosen profession.

Objectives of the Master's Program in Library Science

1. To cultivate in students an understanding of the principles of librarianship as well as the requisite professional qualities of reflective thinking, critical and evaluative analysis, and effective communication.
2. To familiarize students with the historical evolution of librarianship so they will perceive the relationship between society and the dissemination of knowledge and information, and identify the library's role in the process.
3. To perform efficiently in libraries, and to work effectively in serving the public.

4. To introduce students to management theories and procedures common in libraries.
5. To identify issues relating to intellectual freedom and encourage a commitment to the Library Bill of Rights.
6. To take active roles in professional organizations, participate in continuing education, and maintain interest in current research related to the profession.

Admission Requirements

A graduate student in Library Science must meet the general requirements for admission to the University graduate program as outlined elsewhere in the **Graduate Bulletin**, scoring not lower than 800 on the combined Aptitude Section of the GRE to qualify for regular admission. For conditional admission, the School of Library Service adheres to the policies of the Graduate School as stated in the **Graduate Bulletin**. In keeping with University practice and policy, sex, religion, race, physical disability, creed, and age play no role in the consideration of applicants for admission to the MLS degree program.

In addition to the application forms which must be submitted to the Admission Office of the University, the School of Library Service requires the submission of a personal questionnaire, plus two letters of recommendation (on forms supplied). One letter of recommendation should be from a librarian. These forms may be obtained by writing to the School of Library Service, not to the Graduate School. Personal interviews with applicants will also be conducted whenever possible.

Applicants are expected to present a strong overall undergraduate academic record with a significant distribution of course work in the liberal arts, including courses in the sciences as well as the humanities and the social sciences, since librarians are usually expected to be familiar with a broad spectrum of the fields of knowledge. An undergraduate major or minor in librarianship is not a prerequisite for admission. Although not required, it is highly desirable that an applicant have studied at least one foreign language at some point in his previous education. Languages are often required for bibliographic positions or for public library positions in bi-lingual areas of the United States. In short, the prospective librarian should have acquired a broad liberal education at the undergraduate level, including both oral and written facility with English, before entering a program of graduate professional education in library service.

Thus, the decision to admit an applicant to the MLS degree program is based on a careful evaluation of all of the preceding factors in relationship to the recognized educational needs of a student as well as his or her genuine interest in a library service career.

THE MASTER OF LIBRARY SCIENCE DEGREE

Candidates for the Master of Library Science (MLS) degree must earn a minimum of thirty-nine (39) semester hours of credit with a 3.00 cumulative grade point average. Eighteen (18) of these hours must be at the 600 level of courses. A maximum of six (6) hours may be elected from the offerings of other departments within the University. The Graduate School allows a maximum of twelve (12) hours of extension and/or transfer credit. A comprehensive examination is required: a thesis is not required.

The program of study for students will be individualized, taking into consideration previous academic backgrounds, experience, and career objectives. All programs of study must be planned with the counsel of a faculty adviser and approved by the Dean of the School of Library Service.

I. Course Requirements (27 hrs.)

LS 501, 505, 506, 511, 516, 636

605 or 609

651 or 654

665 or 666 or 667

Electives-12 hours

If near equivalencies to any of the above courses were taken on either the undergraduate or graduate level at an accredited institution with a grade of **B** or above, other electives may be substituted. Courses at the 500 level may also be waived by special examination or by the Dean of the School.

II. Course Requirements for School Library-Media Specialist Certification at the Master's Level

Students who wish to qualify for a Mississippi Class AA certification in Library Science must hold or qualify to hold a Class A Elementary or Secondary Teacher's Certificate. The student need not, however, have completed any library science courses on the undergraduate level.

Students who plan to use the master's degree in Library Science for Class AA certification should complete four (4) of the following courses in addition to those listed above: LS 517, 518, 525, 526, 609, 621, 622, 624, 628, 629, 634, 668. Students without previous library experience may be advised to take LS 689.

If near equivalencies to any of the above were taken on either the undergraduate or graduate level at an accredited institution with a grade of **B** or above, other electives may be substituted. Courses at the 500 level may also be waived by special examination or by the dean of the School.

As of Sept. 1, 1981 the following professional education courses must be completed to satisfy certification requirements in the State of Mississippi: REF 601 and REF 607.

Students seeking certification at the master's level are also advised that they may be required to complete more than 39 hours to meet all degree and certification requirements, especially if they do not hold a Class A Certificate in Library Science. Students should see their adviser or the dean of the School of Library Service for further information concerning certification requirements.

SCHOOL OF NURSING

Graduate Degrees

1982-1983

| Department | Major | Degree |
|---------------------------|--------------------------------|-------------------|
| Nursing: Graduate Program | | |
| | Community Health Nursing | Master of Science |
| | Nursing Service Administration | Master of Science |
| | Psychiatric Nursing | Master of Science |

SCHOOL OF NURSING

Jerri D. Laube, Dean
Flora L. Bain, Assistant Dean

MASTER OF SCIENCE DEGREE PROGRAM

The School of Nursing is approved to offer majors leading to the Master of Science degree in the areas of Community Health Nursing, Nursing Service Administration, and Psychiatric Nursing. Within Psychiatric Nursing major, students elect a track for either Mental Health Nursing or Cross-Cultural Mental Health Nursing. Students selecting a major in Community Health Nursing or Psychiatric Nursing are required to select a minor in Nursing Service Administration, Nursing Education, or Clinical Specialization. Students selecting the Nursing Service Administration major are required to select a minor in Community Health Nursing or Psychiatric Nursing.

Options:

| | | | |
|---------|--|---|--|
| Majors: | Community Health Nursing | Nursing Service Administration | Psychiatric Nursing |
| Minors: | Clinical Specialization Nursing Service Administration Nursing Education | Community Health Nursing Psychiatric Nursing | Clinical Specialization Nursing Service Administration Nursing Education |

Core course requirements enable the student to study the problems and concerns of the delivery of nursing from a generalized theoretical perspective. The purpose of the Community Health Nursing major sequence is to prepare nurses to assume leadership roles in Community Health Nursing. The Psychiatric Nursing major with the Mental Health Nursing track is developed to prepare nurses for creative leadership responsibilities in Psychiatric and Mental Health Nursing. The Psychiatric Nursing major with the Cross-Cultural Mental Health Nursing track is designed to prepare nurses to assist ethnic and minority groups with concerns affecting their mental health. The Nursing Service Administration major sequence is designed to prepare nurses for administrative responsibilities in primary, secondary, and tertiary health care facilities.

Admission

In addition to meeting admission requirements for masters programs in this **bulletin**, students must hold a baccalaureate degree from an N.L.N. accredited baccalaureate nursing program, and have a current license to practice nursing.

Students entering the masters program in Nursing must have completed a course in descriptive statistics; and must have evidence of acquisition of skills of physical assessment by transcript or letter from preceptor.

Academic Requirements

In addition to meeting the requirements of this **Bulletin**, the student is required to complete thirty-nine (39) semester hours of credit. All students complete the core requirements of NSG 600, NSG 601, NSG 603, and NSG 604. Students select a major in either Community Health Nursing, Nursing Service Administration, or Psychiatric Nursing; and also select a minor and appropriate cognate. There is a thesis/non-thesis Option.

Sample Program(s) of Study
(With Thesis Option)

| MAJOR: | | |
|--------------------------------|---|---|
| COMMUNITY HEALTH NURSING | NURSING SERVICE ADMINISTRATION | PSYCHIATRIC NURSING (MENTAL HEALTH OPTION) |
| MINOR: | | |
| CLINICAL SPECIALIZATION | PSYCHIATRIC NURSING (CROSS-CULTURAL MENTAL HEALTH OPTION) | NURSING EDUCATION |
| Fall | | |
| N601 Theory Dev Nsg 3 | N601 Theory Dev Nsg 3 | N601 Theory Dev Nsg 3 |
| N603 Nsg Research 3 | N603 Nsg Research 3 | N603 Nsg Research 3 |
| N621 Theory CH Nsg 3 | N612 Conc Org Beh Nsg . . 3 | N631 Theory MH Nsg 3 |
| Cognate 3 | N631 Theory MH Nsg 3 | N611 Curr & Teach 3 |
| 12 | 12 | 12 |
| Spring | | |
| N 600 Sem Nsg Issues 1 | N600 Sem Nsg Issues 1 | N600 Sem Nsg Issues 1 |
| N604 Sem Nsg Research . . 2 | N604 Sem Nsg Research . . 2 | N604 Sem Nsg Research . . 2 |
| N622 Sem CH Nsg 2 | N618 Role of Nse Adm . . . 2 | N632 Sem MH Nsg 2 |
| N622L CH Nsg Prac 2 | N619 Fiscal Mgt Nse 2 | N632L MH Prac 2 |
| N613 Cl Spec Nsg 3 | N652 Multi-Cult MH 2 | N678 Sem Teaching 2 |
| Cognate 3 | N652L Multi-Cult Prac . . 2 | N678L Teaching Prac 2 |
| N698 Thesis 2 | Cognate 3 | Cognate 3 |
| 15 | 14 | 14 |
| Summer | | |
| N 698 Thesis 4 | N698 Thesis 6 | N698 Thisis 6 |
| N623 Nat/Inter CH 2 | N679L Nsg Adm Prac . . . 4 | N633 MH Nursing 2 |
| N623L Prac-Nat/Inter . . . 2 | Cognate 3 | N633L MH Nsg Prac 2 |
| N614 Clin Spec Prac 4 | | Cognate 3 |
| 12 | 13 | 13 |
| TOTAL 39 | TOTAL 39 | TOTAL 39 |

COLLEGE OF SCIENCE AND TECHNOLOGY

Graduate Degrees

1982-1983

| Department | Major | Degree |
|------------------------------------|------------------------|-------------------------|
| Master's Level | | |
| Biology | Biology | Master of Science |
| Chemistry | Chemistry | Master of Science |
| Computer Science and Statistics | Computer Science | Master of Science |
| | Statistics | Master of Science |
| | Teleprocessing Science | Master of Science |
| Geology | Geology | Master of Science |
| Mathematics | Mathematics | Master of Science |
| Medical Technology | Medical Technology | Master of Science |
| Microbiology | Microbiology | Master of Science |
| Physics and Astronomy | Genetics (MS) Emphasis | |
| | Physics | Master of Science |
| Polymer Science | Polymer Science | Master of Science |
| Science Education | Science Education | Master of Education |
| | | Master of Science |
| Specialist's Level | | |
| Biology | Biology | Master of Philosophy |
| Microbiology | Microbiology | Master of Philosophy |
| Polymer Science | Polymer Science | Master of Philosophy |
| Science Education | Science Education | Specialist in Education |

Doctor's Level

Biology

Biology

Doctor of Philosophy

Botany Emphasis
Genetics(PhD) Emphasis
Marine Biology Emphasis
Microbiology Emphasis
Zoology Emphasis

Chemistry

Chemistry

Doctor of Philosophy

Polymer Science

Polymer Science

Doctor of Philosophy

Science Education

Science Education

Doctor of Education
Doctor of Philosophy

COLLEGE OF SCIENCE AND TECHNOLOGY

Gary C. Wildman, Dean

Karen M. Yarbrough, Assistant Dean

The College of Science and Technology offers degrees as outlined on the previous pages. Please check each departmental section for areas of specialization.

The Departments of Biology, Geology, Mathematics, and Science Education in cooperation with the College of Education and Psychology offer programs leading to the Master of Education degree.

The Doctor of Education degree is offered in cooperation with the College of Education and Psychology by the Department of Science Education.

Environmental Science courses are so constructed as to provide a minor for a master's or doctoral degree program.

The programs of Architectural Technology, Building Construction Technology, Electronics Technology, Industrial Technology, and Mechanical Technology offer selected service courses at the graduate level. Course descriptions can be found elsewhere in this **Bulletin**.

For detailed information concerning a department's specified degree program please refer to that department in the following pages. The student's attention is also directed to another part of this **Bulletin** for general Graduate School requirements and regulations.

DEPARTMENT OF BIOLOGY

In addition to the usual academic records, recommendations, and other information required by the University Admissions Office, applicants for graduate programs in the Department of Biology must submit scores from the Advanced Test in Biology of the Graduate Record Examination. The scores, together with the student's academic records, are used to estimate overall levels of achievement in cellular, organismic, and population biology for each entering student and to suggest appropriate initial course work.

MASTER'S DEGREE PROGRAMS

The Department of Biology offers the Master of Science degree in Biology. For this degree a minimum of thirty (30) graduate hours is required, with a minor field in another department (typically chemistry, microbiology, or statistics). The student may emphasize general biology, zoology, botany, or, in conjunction with the Gulf Coast Research Laboratory, marine biology. A faculty committee chaired by the student's major professor directs each student's studies, which center about an original research problem and culminate in a written thesis. The student's committee administers the comprehensive examination and the public defense of the thesis. The student attends departmental seminars each semester.

The general requirements for the Master of Science degree are found elsewhere in this **Bulletin**.

DOCTORAL PROGRAMS

Emphases in General Biology, Botany, Zoology, and Marine Biology

The Department of Biology offers the Doctor of Philosophy degree in Biology. For this degree a minimum of forty-eight (48) graduate hours beyond the MS degree

is required. Students entering the PhD program normally will be expected to have completed an MS degree with research thesis. The student may emphasize general biology, botany, zoology, or marine biology. A five-member faculty committee chaired by the student's major professor directs the student's program of course work and research, which culminates in a dissertation of publishable quality. The student must pass a written and oral comprehensive examination, and must present and defend the dissertation at a public seminar. The degree of Doctor of Philosophy is conferred in recognition of excellence in research and scholarship.

The general requirements for the Doctor of Philosophy degree are found elsewhere in this **Bulletin**.

Students emphasizing Marine Biology, who have been approved by the department and accepted by the Gulf Coast Research Laboratory, may take part of their course work and undertake their research at the Laboratory. These students must register at the University of Southern Mississippi for a minimum full-time student load (9 semester hours) each semester; during the summer terms, the students must register for the maximum load of course work. Work done at GCRL is recognized as resident work; however, students doing research at the GCRL must spend at least three consecutive semesters at the Hattiesburg Campus.

Emphasis in Microbiology

The PhD in Biology with an emphasis in Microbiology is offered through the Department of Biology, with major participation through the Department of Microbiology. The general policies for and requirements leading to the PhD with an emphasis in Microbiology are similar to those outlined above.

Emphasis in Genetics

The PhD is in Biology with an emphasis in Genetics is offered through the Department of Biology, with major participation through the Institute of Genetics. The general policies for and requirements leading to the PhD with emphasis in Genetics are similar to those outlined above.

DEPARTMENT OF CHEMISTRY

MASTER OF SCIENCE DEGREE PROGRAM

The Department of Chemistry offers the Master of Science degree with specialization in analytical, inorganic, organic, physical, and/or biochemistry as well as an interdisciplinary degree program in biochemistry. The MS programs jointly emphasize area coursework, chemical analysis, and research/thesis and require a minimum of thirty (30) hours.

Placement examinations to identify deficiencies and to indicate remedial studies to remedy these deficiencies, participation in the seminar program, and a familiarity with computer programming are required for the MS degrees, along with specific but flexible coursework programs. Completion of a master's comprehensive examination in the student's area of specialization and a one-semester residency period after completion of the comprehensive are required in each program.

DOCTOR OF PHILOSOPHY DEGREE PROGRAM

The Department of Chemistry offers the Doctor of Philosophy degree with specialization in analytical, inorganic, organic, physical, and/or biochemistry as well as an interdisciplinary degree program in biochemistry. The PhD programs emphasize excellence in research as well as in coursework and a broad knowledge of chemical analysis methods.

The PhD programs require seventy-eight (78) graduate hours beyond the bachelor's degree or forty-eight (48) graduate hours beyond the master's degree which includes four courses in Chemical Analysis and specific but flexible coursework requirements.

Among other requirements are:

- (1) Completion of Chemical Analysis Examination;
- (2) Completion of the PhD Comprehensive Examination in the student's area of specialization;
- (3) Participation in the seminar program;
- (4) Proficiency in French, German, and/or Russian, or computer proficiency, or a nine (9) hour minor of courses outside the department;
- (5) A suitable research problem; and
- (6) Completion of the dissertation and its successful defense.

DEPARTMENT OF COMPUTER SCIENCE AND STATISTICS

The Department of Computer Science and Statistics participates in programs leading to the Master of Science degree with a major in either computer science or in statistics. A master's degree in Teleprocessing Science is available to United States Air Force personnel through the Gulf Park Campus. For the master's degree, between thirty-five (35) and thirty-eight (38) hours are required, eighteen (18) of which must be in courses numbered above 600. For the Master of Science degree the student has the option of writing a thesis or of completing a three (3) hour research project and three (3) additional hours of graduate course work.

Master of Science Degree in Computer Science

The following is a list of courses required of all candidates.

Hours

CSS 541, 562, 635, 660 14

The remainder of the work can be completed by either of three options.

Hours

I. Systems Science:

CSS 570, 571, 577, 670, 678 17

Thesis or Research Option 6

II. Business Systems:

CSS 542, 580, 620, 681 14

ACC 625 or MGT 625 3

Thesis or Research Option 6

III. Software Design:

CSS 641, 642, 650 or 670, 662, 681 15

Thesis or Research Option 6

Master of Science Degree in Statistics/Operations Research

A suggested program is given below.

Hours

CSS 515, 516, 517, 541, 635, 636, 637, 620, 621 29

Thesis or Research Option 6

Students may elect an option in Operations Research by taking CSS 690 in addition to the above courses (CSS 636 would be omitted). Students selecting this option must show additional proficiency in linear programming.

Master of Science Degree in Teleprocessing Science

| A suggested program is given below. | Hours |
|--|-------|
| GBA 615 and GBA 625, or CSS 620 and GBA 625, or CSS 515 and CSS 516 | 6 |
| MGT 625, 629 | 6 |
| CSS 630, 631, 632, 633 | 12 |
| CSS 500, 600, 678 (select two) or PS 571, 572, 574 (select two) | 6 |
| Electives | 6 |

Applicants must hold a baccalaureate degree from an accredited college or university and satisfy entrance requirements set forth by the Graduate School of the University of Southern Mississippi. In addition, prospective students must have a proficiency in Fortran and one other general purpose language.

Students may be required to pass a written examination over undergraduate prerequisite courses in Fortran, assembly language, COBOL, data structures, and linear programming. Failure in any area can result in the student's being required to audit or retake the appropriate undergraduate course.

Doctoral candidates may take nine (9) semester hours in either statistics or computer science in lieu of a second language. Specific courses will be determined by this department and by the student's graduate committee. Students may also complete CSS 240 and CSS 501 with at least a **B** in each course in lieu of one language.

DEPARTMENT OF GEOLOGY

The Department of Geology participates in programs leading to the Master of Science degree in Geology. A minimum of thirty (30) graduate hours is required, eighteen (18) of which must be in courses numbered 600 or above. For the Master of Science degree, the student must complete an original research program, submit and defend a thesis to the department; a thesis committee which supervises these activities is established when the student is formally admitted to a degree candidacy. The GRE advanced test in geology is desirable but is not a requirement for admission. No student will be admitted as a regular graduate student for the master's degree in Geology who has a score of less than 1000 on the combined total of Aptitude Section of the **Graduate Record Examinations**, but may be considered for either conditional or non-degree graduate status as outlined in an earlier section.

Students following programs leading to the Master of Science degree in Geology will be required to take a summer field course if they did not have such a course as undergraduates (this stipulation may be waived, upon application, on account of physical disability).

The department has a cooperative arrangement with the Gulf Coast Research Laboratory at Ocean Springs, Mississippi. Courses in marine geological studies may be taken at the Laboratory and are generally taught in the summer. The department has a field camp station in Switzerland where summer field courses may be taken to fulfill undergraduate program requirements, or further studies can be taken for graduate credit.

DEPARTMENT OF MATHEMATICS

The Department of Mathematics offers programs leading to the Master of Science degree with a major in Mathematics.

For all master's degrees, a minimum of thirty (30) semester hours of graduate work is required, eighteen (18) semester hours of which must be in courses numbered above 600. At least fifteen (15) hours of the courses numbered above 600 must be in mathematics. A student who is a resident for less than two semesters must complete a minimum of eighteen (18) semester hours of mathematics courses numbered above 600.

For the Master of Science degree, proficiency in a foreign language is not required. The writing of a thesis is optional with the student's advisory committee.

Before completing nine (9) hours of graduate work the student, with the help of his adviser, should outline his tentative graduate program. As a guide to the student, the courses are grouped into seven areas: topology, analysis, algebra and linear algebra, optimization and numerical analysis, real analysis and probability, combinatorics and graph theory, applied analysis. The student, with the help of his adviser, should obtain a suitable balance in at least three of the seven areas. Details on the courses that will satisfy this requirement may be obtained from the departmental office.

A mathematics seminar is conducted each semester for graduate students in mathematics. Its purpose is to contribute to the student's mathematical development. The seminar is required each semester the student is in residence until three semester hours of seminar have been passed. A maximum of six (6) semester hours credit may be earned for participation in the seminar.

The sequence in advanced calculus should be completed before beginning the programs leading to the Master of Science degree. If not, then it must be included as a part of the program approved by the student's adviser. Only the second course in this sequence can be included as part of the thirty (30) hour minimum requirement for a master's degree.

A student must satisfy the present undergraduate requirements for a major in Mathematics at the University of Southern Mississippi before beginning a program leading to a master's degree in Mathematics. If the student cannot meet these requirements, he may be admitted to the Graduate School as a conditional graduate student and allowed to take work to fulfill these requirements. The hours required for a graduate degree will be in addition to this prerequisite. It should be emphasized that admission to the Graduate School does not imply acceptance of the student as a candidate for a graduate degree.

Candidates for the Master of Science degree will take both oral and written comprehensive examinations not later than the last week of the last semester of residence on dates arranged by the student with the student's adviser and the chairman of the Department of Mathematics.

No student will be permitted to select a thesis topic until he has been admitted to candidacy for a master's degree. The thesis in Mathematics must conform to University regulations. Four copies of the candidate's thesis are required to be distributed as follows: two copies to the Dean of the Graduate School, one copy to the chairman of the Department of Mathematics, and one copy to the student's major professor.

DEPARTMENT OF MEDICAL TECHNOLOGY

Admission

The applicant must hold a baccalaureate degree from an accredited college or university and possess certification as a medical technologist by a recognized national certifying agency. The faculty recommends that an applicant have previous laboratory working experience as a medical technologist before entering a master's

degree program. In addition to the entrance requirements set forth by the Graduate School of the University of Southern Mississippi, the applicant must obtain a combined score of 800 or above on the aptitude sections of the Graduate Record Examination (GRE).

The Master of Science in Medical Technology degree program seeks to provide skills and knowledge to certified medical technologists which will enhance upward mobility in the profession. Graduates of the program are candidates for positions as laboratory supervisors or managers, education coordinators, college or university medical technology faculty members, laboratory computer specialists, research laboratory technologists and blood bank coordinators. The program is structured to provide the student with an area of specialization or expertise.

A minimum of thirty (30) semester hours of course work, excluding hours awarded for thesis, is required for the master's degree in Medical Technology. A minimum of eighteen (18) semester hours must be in courses numbered 600 or above. Students are required to take a science core curriculum which is composed of courses in several science areas encompassed by medical technology. These core courses should interrelate and be directed toward one major interest. The remainder of the required course work may be in an area of specialization such as microbiology, chemistry, genetics, immunology, computer science, management, or education. All course work taken for credit toward the MS degree in Medical Technology must have been approved by the student's graduate committee. Students are required to write a thesis under the direction of a Medical Technology department faculty member and on a subject approved by the student's graduate committee. During the initial phase of study the student will also be required to complete a special problem of his own design. Curriculum and problem must be approved by the student's graduate committee which is composed of a chairman and two members recommended by the department chairman and appointed by the Graduate Dean.

Courses

- I. Science Core Curriculum: With graduate committee approval, select 15-16 hours from the following.

CHEMISTRY: CHE 521, 522, 527L, 528L, 541, 621, 701, 721, 723, 725 or 726

TOXICOLOGY: TOX 570

MICROBIOLOGY: MIC 513, 513L, 521, 521L, 522, 522L, 555, 555L

IMMUNOLOGY: MIC 541, 541L, 742, 742L, 743, 761, 789

GENETICS: GEN 561, 731, 741, 789

BIOLOGY: BIO 505, 510, 511, 511L, 512, 512L, 526, 526L, 534, 570, 716

ENVIRONMENTAL TECHNOLOGY: ESC 501, 501L, 502, 502L, 531, 531L

FORENSIC SCIENCE: FSC 530, 540, 542

- II. **Area of Specialization:** Complete 15 additional hours of courses in chosen area such as education, management, a science such as chemistry, microbiology, genetics, immunology, or computer science. This curriculum must be approved by the student's graduate committee.
- III. **Comprehensive Examinations:** Final comprehensive examinations are required by the department. These will include both oral and written examinations and must be completed during the final semester of study.
- IV. An oral defense of the master's thesis will be required.

DEPARTMENT OF MICROBIOLOGY

Any student having successfully completed a Bachelor of Science or Bachelor of Arts degree in any of the biological or physical sciences, who demonstrates a minimum score of 1000 on the Aptitude Section of the **Graduate Record Examinations**, who has a grade point average of at least 3.0 in the physical or biological sciences, and who meets the requirements set forth by the Graduate School of the University of Southern Mississippi is eligible to pursue a program leading toward the Master of Science degree in the Department of Microbiology. The Department of Microbiology endeavors to prepare students for teaching and/or research positions in industrial and medical microbiology, genetics, virology, and immunology.

MASTER'S DEGREE PROGRAM

During the first semester of graduate work, the choice of the field of study and the selection of a supervisory professor shall be made by the student with the consent of the professor. A minimum of thirty (30) graduate hours is required. An acceptable problem in research, which culminates in the preparation of a thesis, must be completed. The student must also pass a written and/or oral comprehensive examination.

EMPHASIS IN MICROBIOLOGY

(Doctoral Level)

For information about this program see the Department of Biology.

INSTITUTE OF GENETICS

The Institute of Genetics participates in programs through the Department of Microbiology leading to the Master of Science degree with an emphasis in genetics. Requirements for degrees are outlined under the Department of Microbiology. Information pertaining to an emphasis in genetics at the doctoral level is found under the Department of Biology.

DEPARTMENT OF PHYSICS

The Department of Physics offers a program leading to the Master of Science degree. A minimum of thirty (30) graduate hours is required. Research areas from which a thesis may be chosen include emission spectroscopy, atomic collisions, viscous fluid flow, x-ray crystallography, and mass spectrometry.

The prospective beginning graduate student should have completed mathematics through differential equations, and, in addition to introductory physics, courses in mechanics, electricity and magnetism, modern physics and optics. Students with inadequate preparation may be admitted but will be expected to take some make-up courses. Students who plan to do graduate work are expected to take the advanced physics portion of the **Graduate Record Examinations**.

DEPARTMENT OF POLYMER SCIENCE

MASTER'S DEGREE PROGRAM

The Department of Polymer Science offers a Master of Science degree for which a minimum of thirty (30) graduate hours in courses numbered above 600 is required. In addition an original research problem must be completed, terminated with a written thesis.

DOCTOR OF PHILOSOPHY PROGRAM

The Department of Polymer Science offers the Doctor of Philosophy degree for which the general requirements are listed in another section of this **Bulletin**.

A list of additional departmental requirements is available from the chairman. This degree is conferred only in recognition of excellence in research and scholarship.

DEPARTMENT OF SCIENCE EDUCATION

The Department of Science Education, recognizing the increased emphasis on the art of science teaching and the additional opportunities for individuals with advanced training in these arts, provides a program for the Master of Education, Master of Science, Specialist's, Doctor of Philosophy, and Doctor of Education degrees in Science Education.

Any student who has successfully completed a Bachelor of Science or Bachelor of Arts degree in any area of science or combination of sciences, or has an equivalent academic preparation in the sciences, who demonstrates a minimum score on the aptitude section of the GRE of 750 for a master's, 800 for a specialist's, and 850 for the doctoral degrees, who has a grade point average of at least 3.0 for a master's and 3.5 for a specialist's, and who meets the requirements set forth by the Graduate School of the University of Southern Mississippi is eligible to pursue a program in Science Education. A student who does not meet all the above requirements may be admitted conditionally.

In addition to the general requirements and procedures pertaining to graduate degrees as outlined previously in this **Bulletin**, the following requirements must be fulfilled.

MASTER'S PROGRAM

1. Hold A certification.
 - (a) If the student does not hold A certification he will be expected to enroll in courses necessary to complete this deficiency
 - (b) These courses will not satisfy requirements for the master's degree.
2. Completion of a minimum of thirty-four (34) semester hours of graduate work.
 - (a) A minimum of fifteen (15) semester hours in a specific science—biology, chemistry, earth and environmental sciences, or physics.
 - (b) Three (3) semester hours in a related science.
 - (c) Three (3) semester hours in a professional education area (to be determined by the major adviser).
 - (d) Thirteen (13) semester hours (four (4) courses and one (1) seminar) from the Department of Science Education—(maximum of three (3) semester hours of special problems for degree requirement).

A thesis carrying six semester hours is optional and would substitute for two courses in Science Education. The total program with thesis requires thirty-four (34) semester hours graduate credit. The thesis may involve research in a particular science or research in science education.

SPECIALIST'S DEGREE PROGRAM

1. Complete thirty (30) semester hours of graduate course work beyond the master's level and complete a thesis of six (6) semester hours.
2. Complete minimum of fifteen (15) semester hours in a specific science—biology, chemistry, earth and environmental sciences, and physics.

3. Complete three (3) semester hours of work in professional education.
4. Complete twelve (12) semester hours in science education excluding the thesis.
5. Demonstrate competence in thesis writing by selecting a topic, doing research, and reporting the findings.

DOCTORAL PROGRAM

1. Possess master's degree and hold an AA certification in one of the sciences or the equivalency thereof.
2. Complete successfully an additional forty-eight(48) semester hours of graduate work beyond the master's degree excluding the dissertation which will include:
 - (a) Fifteen (15) semester hours in a specific science (minimum of)
 - (b) Three (3) semester hours in a related science (minimum of)
 - (c) Three (3) semester hours in professional education (minimum of)
 - (d) Eighteen (18) semester hours in science education
 - (e) Nine (9) semester hours of electives (five (5) courses and three (3) seminars)—science education, specific science, or professional education.
3. Complete an acceptable dissertation.

Additional requirements include demonstrated proficiency in educational statistics and independent research. Research, culminating in a dissertation, may deal with a program in the student's science speciality or a problem in science education. However, the research problem must address educational needs related to the teaching of science.

During a student's first or second semester of enrollment, the department will require a written and/or oral qualifying examination. This examination is designed to assess both the student's fitness to pursue doctoral work and to assist the committee members in planning his doctoral program. A written and/or oral comprehensive examination must be taken at or near the completion of the candidate's course work. Upon acceptance of the dissertation by the candidate's committee and at least four weeks prior to graduation, a final oral examination in defense of the candidate's dissertation will be administered. The Department of Science Education furthermore requires that the candidate's research be acceptable for publication in journals in his field.

In addition to an evaluation of the student's record, tests and examinations are used for diagnostic purposes in planning programs. **The Graduate Record Examinations** verbal and quantitative score should be submitted with the application for advanced graduate study.

GRADUATE SCHOOL OF SOCIAL WORK

Graduate Degrees

1982-1983

| Department | Major | Degree |
|-------------|-------------|--------------------------|
| Social Work | Social Work | Master of Social Work |

GRADUATE SCHOOL OF SOCIAL WORK

Shirley J. Jones, Dean

The Graduate School of Social Work has met the educational requirements of the Council on Social Work Education and has, therefore, a fully accredited program at the master's degree level (MSW).

The School of Social Work's curriculum emphasizes a body of knowledge and advanced practice skills that will prepare the student to practice in a variety of service delivery settings utilized in behalf of individuals, groups, families, and communities. The advanced foundation and elective courses offer the students the type of generalist underpinning which will prepare them with the appropriate knowledge and intervention skills to practice in areas of mental health/mental retardation, family and children's services, services to older persons, health and social welfare policy and administration.

The human services agencies throughout the State of Mississippi are potential employers of those students who successfully complete the MSW degree program.

Graduate students admitted to the Master of Social Work (MSW) program may qualify for the following educational plans:

1. The regular Master of Social Work program requiring a **minimum** of four semesters (18 months): fall and spring semesters of two academic years;
OR
2. An accelerated/advanced Master of Social Work program which goes straight through for a **minimum** of twelve (12) consecutive months: the fall and spring semesters and the final summer term. This program is for the student who holds a bachelor's degree with a major in social work from an undergraduate social work program. While this program is accelerated in nature, it is designed as an advanced program built upon the expectation of prior basic social work content acquired at the baccalaureate level.

Regular Master of Social Work Program

First year students enroll in the fall semester. Students typically spend two semesters on campus attending classes and two semesters in field instruction. Students may be assigned to field practice experiences at various locations within the state. The practicum is designed to integrate and enhance knowledge, values, and skills at both foundation and advanced levels. A **minimum** of sixty (60) credit hours is required for graduation.

Accelerated/Advanced Master of Social Work Program

Students accepted into the accelerated/advanced program enter in the fall semester, which is devoted to academic coursework. Accelerated/advanced students begin field practicum in the spring semester and continue through their final summer term. They may be assigned to field practice experiences in various locations within the state. A **minimum** of forty-five (45) credit hours is required for graduation.

Part-Time Educational Program

The School, in keeping with its admissions requirements, offers a part-time educational program designed primarily for practitioners working full-time, in which two semesters of classroom instruction may be completed over an extended period of time (up to five years), with the final two semesters of field and classroom instruction being completed as full-time students in residence. Evening courses, offered on several USM designated campuses in the state, provide part-time social work students with additional educational opportunities. Advisement is available for part-time students, (For admission requirements, see below.)

Requisites for the MSW Degree

Students must have a **B** grade average in academic coursework and a **B** grade average in field practicum.

All required courses must be successfully completed.

A **minimum** of sixty (60) hours is required for graduation in the regular MSW program; a **minimum** of forty-five (45) hours is required for graduation from the accelerated/advanced MSW program.

Students have the option of selecting a broadly based program from advanced practice, or they may choose a more narrowly focused program emphasizing the areas of Mental Health/Mental Retardation, Family and Children's Services, Services to Older Persons, Health, Social Welfare Policy, and Administration.

Admission Requirements

Applicants to the School of Social Work are selected and admitted without discrimination on the basis of sex, race, religion, color, or national origin.

- A. Regular students, full-time or part-time, are admitted on the basis of the following factors: a bachelor's degree from an accredited college or university; a **minimum** undergraduate grade point average (GPA) of 2.75 on a 4.0 scale; a **minimum combined** score of 750 on the **Graduate Record Examinations** (verbal and quantitative sections); academic background; references; and a written personal statement from the applicant, all of which factors will be evaluated by the Admissions Committee. It is the desire of the School to see each applicant prior to completion of the admission process. In most cases, an interview with the applicant by a faculty member is required to support the application process. The evaluation results of the faculty member will then be submitted to the School's Admissions Committee.
- B. A person applying for admission to the accelerated/advanced program must meet additional requirements to those listed above: must have a bachelor's degree from an undergraduate social work program; must have a GPA of at least 3.0 on a 4.0 scale in the undergraduate social work courses. An evaluation of the applicant's undergraduate field experience must also be included in the educational material. Preference in admission will be given to the applicant who holds a bachelor's degree from an undergraduate social work program accredited by the Council on Social Work Education, provided all other criteria are met.
- C. Admission into the School of an applicant with prior status of "graduate non-degree" is contingent upon a **B** or above average in the graduate social work courses taken prior to admission. In addition, the applicant must meet the regular admission requirements as listed in section **A** above. No more than nine (9) credit hours may be transferred toward the graduate degree from the "non-degree" status. Therefore, after nine (9) hours have been accrued, non-degree students must apply for and receive admission into the Graduate School of Social Work in order to receive credit for additional course hours.

The School adheres to the University policies with regard to admission of graduate students on a "conditional" basis. **Students with conditional admission are not eligible for the accelerated/advanced program.** The University regulations concerning "conditional admissions" for regular or part-time students are stated in this **Bulletin** under "Admission Requirements and Procedures."

No application for admission to any program in the School will be considered unless accompanied by a copy of the **Graduate Record Examinations** score (verbal and quantitative sections) and one copy of a transcript covering at least the final two

years of undergraduate study. Applicants for the accelerated/advanced program must also supply course descriptions of undergraduate social work courses taken.

All admission requirements must be completed by the University admission deadline for fall semester admission. The **Graduate Record Examinations** is given only at specified times during the year, and there is a delay of about six (6) weeks before the University receives the student's scores after the GRE is taken. Therefore, since GRE scores are required for admission, the applicant should allow sufficient time for the completion of an application. For further information, write or call:

Coordinator of Admissions
Graduate School of Social Work
University of Southern Mississippi
Box 5114, Southern Station
Hattiesburg, Mississippi 39406-5114

Telephone: (601) 266-4163

UNIVERSITY OF SOUTHERN MISSISSIPPI GULF COAST

Joe E. Holloway, Dean

The University of Southern Mississippi Gulf Coast serves to enable the University of Southern Mississippi to bring its graduate courses and programs to the Mississippi Gulf Coast. All courses and programs are offered through the appropriate departments and colleges on the parent campus in Hattiesburg. All courses may be applied to degrees offered by the University. Most of the policies governing USM Gulf Coast graduate program are identical with those stated elsewhere in this **Bulletin**. Information unique to USM Gulf Coast graduate programs is outlined below.

SCOPE

USM Gulf Coast provides a flexible delivery system designed to react to the educational needs of Coast citizens. Consequently, new courses are added to the schedule as student demand warrants and resources permit. A sufficient number of courses are now being offered so that USM Gulf Coast students may earn their entire master's degree in the following areas: Adult Education, Business Administration, Computer Science, Criminal Justice, Educational Administration and Supervision, Elementary Education, Political Science, Political Science - Public Administration Emphasis, Reading, Science Education, Secondary Education, Special Education, and Teleprocessing Science. As the scope of the USM Gulf Coast program broadens in response to student demand, additional areas of specialization will become available. Because USM Gulf Coast offers a broad range of courses, students can obtain master's level courses in areas not mentioned above. Prospective students are invited to contact a USM Gulf Coast adviser in order to discuss course availability in their area of special interest.

Accreditation

As an integral division of the University of Southern Mississippi, USM Gulf Coast is accredited by the Southern Association of Colleges and Schools—Commission on Colleges and the National Council for the Accreditation of Teacher Education.

Admission

USM Gulf Coast graduate admission requirements and procedures are identical with those outlined elsewhere in this **Bulletin**, except that procedures are initiated through the USM Gulf Coast Director of Student Services. In order to facilitate proper advisement and predetermination of admission status, students should furnish transcripts and complete applications for admission at least twenty days prior to registration. A student who is unable to meet this deadline may be provisionally admitted as a non-degree graduate student at registration. However, the University is not in any way committed to continue enrollment, refund fees or tuition, grant grades, or otherwise award credit if all of the required admission forms are not received on time or if the provisional student is found to be ineligible for admission. Transcripts of provisional students must be received by the middle of the term in which they register. Transcripts and completed applications should be sent to the Director of Student Services, USM Gulf Park, Long Beach, MS 39560.

Graduate Residency Requirements

Specialist and doctoral level students are reminded that graduate residency requires intensive full-time study of an individualized nature. In addition, some

departments have options to meet specialized needs. These students must have their degree plans approved in writing in advance by their department chairman prior to course enrollment.

Course Load

Students are permitted to carry nine (9) semester hours per term through USM Gulf Coast. Credit workshops taken on the Gulf Park Campus will be counted as a part of the nine-hour load.

Gulf Coast area students are also served by a separate unit, the University of Southern Mississippi Jackson County Resident Center. Course offerings and scheduling are coordinated with the USM Regional Campus at Gulf Park and USM-Keesler. Students are permitted to enroll concurrently at the three locations.

Fees

All USM Gulf Coast student fees are assessed in accordance with the University's part-time student fee schedule quoted elsewhere in this **Bulletin**. Students who enroll concurrently between USM Hattiesburg and USM Gulf Coast must pay separate fees for the USM Gulf Coast courses.

Calendar

USM Gulf Coast offers four eleven-week terms per year. Holidays follow the same schedule as the Hattiesburg Campus Calendar found elsewhere in this **Bulletin**.

| TERM | REGISTRATION |
|----------------|------------------|
| Fall 1982-83 | Aug. 25-26, 1982 |
| Winter 1982-83 | Nov. 10-11, 1982 |
| Spring 1982-83 | Feb. 23-24, 1983 |
| Summer 1982-83 | June 1-2, 1983 |

SPECIAL DEGREE PROGRAM

The Master of Science in Teleprocessing Science is offered by the Department of Computer Science and Statistics within the College of Science and Technology of the University of Southern Mississippi in cooperation with the Telecommunications System Staff Officer Course at Keesler Air Force Base, Biloxi, Mississippi.

The purpose of the program is to provide the knowledge and skills necessary to function at the executive level in the management of teleprocessing, telecommunications, and electronics systems in both military and civilian sectors. In addition to courses in communications, emphasis is placed on computer science, management, and statistics with an additional option of public administration.

The Teleprocessing Science program is open to both military and civilian personnel. Undergraduate preparation in any of a wide variety of areas is acceptable. Admission requirements and procedures are the same as those stated elsewhere in this **Bulletin**, except that application should be made through the Office of Student Services, USM Gulf Coast. The acceptable score on the **Graduate Record Examinations** is 850.

The curriculum for the major in Teleprocessing Science includes the following coursework.

GBA 625 and GBA 615

or

GBA 625 and CSS 620

or

CSS 515 and CSS 516

Hours

Statistics.....6

| | |
|---|--------------|
| MGT 625 Human Rel. & Orgn. Theory | 3 |
| MGT 669 Behav. Dynamics in Org. | 3 |
| CSS 630 Comm. Engr. Fund. | 3 |
| CSS 631 Analog & Digital Comm. | 3 |
| CSS 632 Comm. Sys. Analysis..... | 3 |
| CSS 633 Computer & Comm. | 3 |
| CSS 500 Computing for Tchrs. | |
| CSS 600 Mgt. of Computer Sys. | Two of Three |
| CSS 678 Comp. Control Sys. | |
| or | 6 |
| PS 571 Pub. Pers. Admin. | |
| PS 572 Organ & Mgt. | Two of Three |
| PS 574 Govt. Budgetary Proc. | |
| Guided Electives | 6 |
| Total: | 36 |

The guided electives must be courses which relate to the teleprocessing curriculum and which are chosen with the consent of the program adviser.

UNIVERSITY OF SOUTHERN MISSISSIPPI NATCHEZ REGIONAL CAMPUS

Bill W. Gore, Dean

The University of Southern Mississippi-Natchez Regional Campus offers graduate degree programs in General Elementary Education, Educational Administration, and selected minor areas of Secondary Education. These programs are offered through the USM Hattiesburg departments with coordinators, advisers, and classes available on a continuing basis at USM-Natchez. Admission policies and curricula are the same as for the Hattiesburg Campus and are listed elsewhere in the appropriate section of the **Bulletin**.

Additionally, the University of Southern Mississippi-Natchez offers the Master of Business Administration degree. The requirements for this degree are listed below.

Master of Business Administration

The Master of Business Administration is designed to prepare the student for advanced management positions in business, industry, government, or other non-profit organizations. The program covers the broad areas of business fundamentals and includes in-depth study of the area of management. It is offered through evening classes to serve the students of the Natchez commuting area.

Prerequisite courses are principles of accounting, business law, money and public policy, economics principles, business finance, management, marketing, computer science, and statistics. The student whose undergraduate degree is in some area other than business administration will have to make up course deficiencies before entering the specific graduate level course for which the undergraduate course is prerequisite. Determination of which prerequisite courses must be completed by each student admitted will be made by the USM-Natchez departmental coordinator.

Admission to the program is in conformance with all rules of the Graduate School. Additionally, before completing the first nine graduate hours the student must score satisfactorily on the **Graduate Management Admission Test (GMAT)**. The minimum GMAT score acceptable is calculated thus: (a) 1,000 points based on the formula: 200 times the grade point average of the last two years of undergraduate study (4.0 scale), plus the GMAT score or (b) for conditional admission, 950 points based on the formula: 200 times the overall undergraduate grade point average plus the GMAT score. In either (a) or (b) above the GMAT must be greater than 400 points. Application for admission must be made through the Director of Admissions, USM-Natchez. Two copies of official transcripts from all colleges previously attended must accompany the application.

The Master of Business Administration degree will be granted to candidates, who (1) meet the general requirements of the Graduate School and the specific admission requirements to this program, (2) complete the curricular requirements herewith outlined, and (3) pass a comprehensive examination, both written and oral, of qualification for business management, covering, at the least, basic fundamentals in management, accounting, economics, finance, marketing, and quantitative techniques.

| Curriculum | | | |
|--|-------|---------------|-----------|
| Course | Hours | Course | Hours |
| ACC 625 | 3 | FIN 625 | 3 |
| GBA 625 or 615 | 3 | MKT 625 | 3 |
| ECO 625 | 3 | MGT 665 | 3 |
| Field emphasis (in management) | | | 9 |
| Electives (in other business, or related, disciplines) | | | 6 |
| | | | Total: 33 |

A student with an undergraduate major in accounting, economics, finance, or marketing may be allowed to substitute another course in the same department, if available, for the 625 course in his major.

The program may not include any courses numbered below 500, but it may include up to six hours of 500-level courses.

COURSE DESCRIPTIONS

INDEX OF ABBREVIATIONS FOR FIELDS OF INSTRUCTION

| | | | |
|-----|--|-----|-------------------------------------|
| AA | Allied Arts | HHM | Housing and Home Management |
| AAC | Athletic Administration and Coaching | HIS | History |
| ACC | Accounting | HON | Honors College |
| ACT | Architectural Technology | HRA | Hotel and Restaurant Administration |
| ADE | Adult Education | HSE | Health and Safety Education |
| AMS | American Studies | | |
| ANT | Anthropology | | |
| AOS | Aerospace Studies | | |
| APM | Applied Music | HUM | Humanities |
| ARE | Art Education | IAD | Institution Administration |
| ART | Art | INT | Industrial Technology |
| AST | Astronomy | IVE | Industrial and Vocational Education |
| BCT | Building Construction Technology | JOU | Journalism |
| BED | Business Education | LS | Library Science |
| BIO | Biology | MAT | Mathematics |
| CD | Child Development | MED | Music Education |
| CHE | Chemistry | MET | Mechanical Technology |
| CI | Curriculum and Instruction: CIE Elementary CIS Secondary | MFL | Marriage and Family Life |
| CJ | Criminal Justice | MGT | Management |
| CLT | Comparative Literature | MIC | Microbiology |
| COM | Communication | MKT | Marketing |
| CPY | Counseling Psychology | MS | Military Science |
| CSS | Computer Science and Statistics | MTC | Medical Technology |
| CT | Clothing and Textiles | MUS | Music |
| ECO | Economics | NSG | Nursing |
| EDA | Educational Administration | PED | Physical Education |
| ELT | Electronics Technology | | |
| ENG | English | PHI | Philosophy |
| EPY | Educational Psychology | PHY | Physics |
| ESC | Environmental Technology | PS | Political Science |
| EVD | Environmental Design | PSC | Polymer Science |
| FIN | Finance | PSY | Psychology |
| FL | Foreign Languages | REC | Recreation |
| FN | Food and Nutrition | REF | Research and Foundations |
| FS | Fundamentals of Science | REI | Real Estate and Insurance |
| FSC | Forensic Science | REL | Religion |
| FST | Food Science Technology | RTF | Radio-Television-Film |
| GBA | General Business Administration | SCE | Science Education |
| GEN | Genetics | SCM | Speech Communication |
| | | SHS | Speech and Hearing Sciences |
| | | SOC | Sociology |
| | | SPE | Special Education |
| | | SWK | Social Work |
| | | THE | Theatre and Dance |

GHY Geography
 GLY Geology
 HEE Home Economics
 Education

THY Therapy
 THY Toxology

The plus (+) sign in front of a course indicates that a special fee is charged for that course. (See page 32).

ACCOUNTING (ACC-605)

502. **Advanced Accounting II.** 3 hrs. Prerequisite: ACC 401. An introduction to consolidated financial statements, accounting for fiduciaries, and governmental accounting.

505. **Current Accounting Theory and Research.** 3 hrs. Prerequisites: ACC 330, 401, 402, 409. A study of the accounting literature.

510. **Auditing II.** 3 hrs. An in-depth study of the auditor's attest function with emphasis on current literature and professional qualifying examinations.

520. **Advanced Cost Accounting and Budgeting.** 3 hrs. Prerequisite: ACC 320. The development of accounting data for managerial use.

530. **Federal Income Tax Accounting II.** 3 hrs. Prerequisite: ACC 330. The environment of business as affected by the federal income tax law.

592. **Research in Accounting Problems.** 1-3 hrs. Prerequisite: Permission of adviser. Individual study of specific topics in accounting.

604. **Financial Accounting Analysis.** 3 hrs. Prerequisite: Graduate standing. An introduction to financial accounting. (May be taken in lieu of Principles of Accounting for those preparing for the MBA degree but may not be applied toward 36 semester hour requirement for the degree. May be used in requirements for MS in Teleprocessing Science by those without undergraduate credit in accounting, but only in conjunction with ACC 625.)

605. **Advanced Accounting Theory.** 3 hrs. Prerequisites: 15 hours of accounting above accounting principles. Study of financial accounting literature.

610. **Advanced Problems in Public Accounting.** 3 hrs. Prerequisites: 15 hours of accounting above accounting principles including ACC 409. A study of current topics in public accounting practice.

620. **Advanced Cost Accounting Problems and Controllershship.** 3 hrs. Prerequisites: 15 hours of accounting above accounting principles including ACC 320. A study of cost concepts and controllership function.

625. **Managerial Accounting.** 3 hrs. Prerequisite: Principles of accounting. A study of the potential managerial uses of accounting information. (Not to be taken by accounting emphasis students.)

630. **Tax Planning and Research.** 3 hrs. Prerequisites: ACC 330 and 430 or equivalent. Tax planning and research.

640. **Contemporary Problems in Accounting.** 3 hrs. Prerequisite: ACC 405 and 409. CPA problems review.

680. **Legal Aspects of Accounting.** 3 hrs. Prerequisite: ACC 480. The impact of legislation on accounting.

692. **Special Problems in Accounting.** 3 hrs. Individual study of specific topics in accounting.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

ADULT EDUCATION (ADE-110)

540. Methods and Materials in Adult Education. 3 hrs. A course in method and format of instructional materials for adults with emphasis on self-instructional techniques.

541. Foundations of Reading Instruction for the Adult. 3 hrs. This course involves an examination of the basis of reading instruction for the nonliterate adult.

542. Methods and Materials for Teaching Adults to Read. 3 hrs. Instructional and diagnostic materials and methods for dealing with functionally illiterate adults.

545. Teaching the Disadvantaged Adult. 3 hrs. A study of the educational problems of culturally deprived and handicapped adults in terms of programs and procedures found to be successful.

576. Learning in Adult Education. 3 hrs. A study of learning in adulthood, and related to a range of educational programs.

590. Special Problems in Adult Education. 1-3 hrs. Special areas of interest arranged for an individual or a group with common interests.

597. Interdisciplinary Seminar in Developmental Disabilities. 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

601. Principles of Adult Education. 3 hrs. A survey of the history, philosophies, form, structure, and current developments in the field of adult education.

602. Organization and Administration of Adult Education. 3 hrs. Includes the design, implementation, and financing of programs for adults.

607. Program Planning and Curriculum Development in Adult Education. 3 hrs. The design of programs and courses of study related to a wide variety of adult education agencies.

692. Special Problems I, II, III. 1-3 hrs. A study to develop knowledge and facility in a field of special interest to the student. Requires preparation of a scholarly paper under supervision of a graduate professor.

701. Delivery Systems for Adult Education. 3 hrs. Prerequisites: ADE 601 and ADE 607. Introduction and orientation to a variety of organizations and agencies responsible for conducting adult education programs.

741. Assessment in Adult Education. 3 hrs. Prerequisite: ADE 576, REF 601, or permission of instructor. Explore, develop, and evaluate various assessment methods and strategies used in adult education.

750. Education and the Older Adult. 3 hrs. A study of the elderly adult and the implications of those characteristics for adult education programs.

791. Research in Adult Education. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems in Adult Education I, II, III. 1-3 hrs. arr. A project dealing with a specific problem in an adult education agency. Registration must be approved by student's major professor and departmental chairman.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs. A field study of thesis type research study representing the major research component of the specialist's degree.

889. **Seminar in Adult Education.** 1 hr. (Max. 3 hrs.) Seminar required for adult education doctoral students in residence. Emphasizing current issues in adult education selected by students in consultation with faculty.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

ALLIED ARTS (AA-655)

600. **Aesthetics in the Arts.** 3 hrs. Emphasis is placed upon an analysis of artistic expression and the affective quality of experience with the fine arts.

ANTHROPOLOGY (ANT-286)

SOC 560. **Methods of Social Research.** 3 hrs. May also be offered for credit as an anthropology course.

SOC 681. **Departmental Seminar I.** 1 hr. May also be offered for credit in anthropology.

SOC 682. **Departmental Seminar II.** 1 hr. May also be offered for credit in anthropology.

SOC 683. **Departmental Seminar III.** 1 hr. May also be offered for credit in anthropology.

501. **Primate Behavior.** 3 hrs. Study of nonhuman Old and New World primates with regard to growth, behavior, social organization, and ecology.

503. **Prehistoric Archaeology.** 3 hrs. Studies in Old World and New World Archaeology designed to correlate with departmental research projects and to meet specific needs and interests.

504. **Mediterranean Archaeology.** 3 hrs. The archaeology of complex societies with particular reference to the general area.

511. **Foundations of Indo-European Thought and Culture.** 3 hrs. A comparative approach to the background of western culture, utilizing linguistics, mythology, and archaeology.

512. **Mythology and Folklore.** 3 hrs. The utilization of folklore and mythological data in anthropological research.

513. **History of Anthropological Theory.** 3 hrs. A general survey of the history of anthropological thought and of the major contemporary schools of anthropological theory.

515. **Archaeology Field Methods.** 3 hrs. Methods of fieldwork through participation in organized field projects.

520. **Culture and Ethnicity.** 3 hrs. An analysis of culture and ethnicity with special reference to the problem of modernization.

526. **Topics in Anthropology.** 3 hrs. Variable content. May be repeated three times in separate topical offerings for a total of 9 hours.

534. **Primitive Religion.** 3 hrs. Beliefs and rituals in society; origins and functions of religion; shamanism; magic, witchcraft, and curing.

605. **Psychological Anthropology.** 3 hrs. Cross-cultural analysis of basic personality formation; perception and cognition; altered states of consciousness; culture change.

606. **Economic Anthropology.** 3 hrs. The evolution of economic systems, cross-cultural analysis of economic systems, and the relative role of economics forces in the determination of social change.

607. **Applied Anthropology.** 3 hrs. The application of anthropology to the solution of contemporary social and cultural problems.

611. **Seminar in Archaeology.** 3 hrs. Research and tutorial in individually designed studies in archaeology.

612. **Seminar in Ethnology.** 3 hrs. Individually designed and supervised studies in ethnology.

613. **Seminar in Physical Anthropology.** 3 hrs. Individually designed and supervised studies in physical anthropology. Seminar discussion on methodology and findings.

620. **Seminar in Research Methods I.** 3 hrs. Logic and methods of anthropological research, emphasizing collection of a suitable body of data.

621. **Seminar in Research Methods II.** 3 hrs. Logic and methods of anthropological research, emphasizing analysis of data.

692. **Special Problems.** 1-3 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis, and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

792. **Special Study Projects in Anthropology.** 1-6 hrs. Special projects in reading, survey, or research in anthropology.

ARCHITECTURAL TECHNOLOGY (ACT-392)

592. **Special Problems.** 1-3 hrs. Prerequisite: Senior standing and approval of faculty adviser.

ART (ART-660)

513. **Crafts II.** 3 hrs. The creation and design of jewelry.

514. **Crafts III.** 3 hrs. The creation of surface designs for fabrics.

531. **Ancient Art.** 3 hrs. 4000 B.C. to *circa* 600 A.D.

532. **Medieval Art.** 3 hrs. 600 A.D. to *circa* 1300 A.D.

533. **Renaissance Art.** 3 hrs. 1400 AD to 1600 A.D.

534. **Baroque and Rococo Art.** 3 hrs. 17th and 18th centuries.

535. **Nineteenth Century Art.** 3 hrs.

536. **Twentieth Century Art.** 3 hrs.

600. **Studio Foundations.** 3 hrs. A review, through studio problems, of some fundamental problems of plastic expression. Hours earned may not be used to fulfill degree requirements.

601. **Drawing Studio.** 3 hrs.

602. **Drawing Studio.** 3 hrs.

603. **Drawing Studio.** 3 hrs.

610. **Crafts: Jewelry Design for Teachers.** 3 hrs. The study of visual forms as pertaining to the jewelry crafts.

615. **Trends in Current Plastic Expression.** 3 hrs. A course designed to keep the student abreast of current trends in the plastic arts.

620. **Adapting Selected Current Art Trends to School Practice.** 3 hrs. Current art trends are identified and selections of them are developed in terms of philosophies, practitioners, background, and techniques.

- 621. **Painting Studio.** 3 hrs.
- 622. **Painting Studio.** 3 hrs.
- 623. **Painting Studio.** 3 hrs.
- 651. **Ceramics Studio.** 3-9 hrs.
- 701. **Drawing Studio.** 3 hrs.
- 702. **Drawing Studio.** 3 hrs.
- 703. **Drawing Studio.** 3 hrs.
- 721. **Painting Studio.** 3 hrs.
- 722. **Painting Studio.** 3 hrs.
- 723. **Painting Studio.** 3 hrs.
- 760. **Seminar.** 1 hr.
- 761. **Seminar.** 1 hr.
- 762. **Seminar.** 1 hr.
- 799. **Creative Project.** 6 hrs.

ART EDUCATION (ARE-665)

600. **Art Education Theory.** 2 hrs. A comprehensive survey of Art Education trends and philosophies.

601. **Introduction to Research in Art Education.** 3 hrs. A study of current research and research techniques in the area; includes the compilation of bibliographic material and the organization of research projects.

602. **Art Techniques and Materials for Teachers.** 3 hrs. A comprehensive survey of teaching techniques emphasizing the pedagogical potential and limitation of plastic media.

603. **Characteristics of Visual Relationships for Teachers.** 3 hrs. A course dealing with the teaching of the visual characteristics and arrangement of visual relationships.

604. **Teaching the Exceptional Student Contemporary Processes.** 3 hrs. A course devoted to the pedagogical potential of contemporary processes for use with exceptional students.

605. **Techniques of Dissemination of Student Art Work.** 3 hrs. Techniques of advanced pedagogy in the selection, display, and showing of student work.

606. **History and Philosophy of Art Education.** 3 hrs. An integrative, historical, and philosophical study of Art Education.

616. **Advanced Art Seminar for Teachers in Elementary Education.** 3 hrs. An advanced study of the scope and sequence of art education curricula. The coordination of art programs with sequential studies will be stressed.

625. **Supervision of Art Education Programs.** 3 hrs. A study of the problems involved in the supervision of public school art programs in grades K through twelve.

626. **Curriculum and Instruction in Art Education.** 3 hrs. A study of the art curricula and instructional programs in the public schools in grades K through twelve.

691. **Research in Art Education.** 1-9 hrs. Prerequisite: Approval of the major professor.

692. **Special Problems in Art Education I, II, III.** 1-3 hrs. each.

697. Independent Study and Research. 1-12 hrs. Not to be counted as credit toward a degree. Students who are not in residence but are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. A conventional thesis.

ATHLETIC ADMINISTRATION AND COACHING (AAC 710)

505. Governing Agencies for Competitive Athletics. 3 hrs. An indepth study of the governing agencies related to the administration and control of athletic competition.

509. Psychological and Sociological Aspects of Coaching. 3 hrs. The analysis and study of human behavior patterns as they relate to athletics.

526. Coaching Soccer. Workshop. 3 hrs. Fundamentals of coaching soccer as it relates to the selection of personnel, philosophy, skills, and proper training procedures.

570. Assessment and Development of Athletic Attributes. Workshop. 3 hrs. The development and administering of strength, endurance, flexibility, reaction, speed, and agility programs.

571. Practice Organization, Scouting, and Communication Techniques. 3 hrs. Daily practice plans, scouting techniques, cinematography, instructional materials, techniques, and equipment for coaches.

575. Medical Aspects of Athletic Training. 3 hrs. Team physician and trainer relationships. Physical examination, emergency equipment, medical terminology, and problems related to the team physician.

577. Seminar in Sports Medicine. Seminar. 1-3 hrs. A study of modern methods and techniques utilized in sports medicine as it relates to coaches, trainers, and team physicians.

670. Administration of Athletics. Workshop. 3 hrs. Special emphasis on problems of the athletic director and coach in organizing and directing the athletic program through all levels of the educational structure.

671. Special Athletic Problems-Football. 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of football through study and research.

672. Special Athletic Problems-Basketball. Seminar. 3 hrs. Defining, analyzing, and solving specific problems relating to the sport of basketball through study and research.

673. Special Athletic Problems-Baseball. 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of baseball through study and research.

674. Special Athletic Problems-Track. 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of track through study and research.

675. Minor Sports. 2 hrs. Defining, analyzing, and solving specific athletic problems relating to minor sports through study and research.

676. Athletic Seminar. 3 hrs. An indepth study and analysis to enhance professional growth in athletics as it relates to advanced skills and knowledge of coaching.

677. Athletic Seminar. 3 hrs. Continuation of AAC 676. Topics vary.

678. Care and Treatment of Athletic Injuries. 3 hrs. Techniques and facilities for adequate prevention and treatment of athletic injuries.

BIOLOGY (BIO-305)

501. History of Biology. 3 hrs. Lectures and papers concerning the development of biological sciences.

504. Herpetology. 2 hrs. Collection, preservation, identification, and distribution of amphibians and reptiles. Field trips when possible.

504-L. Herpetology Laboratory. 1 hr.

505. Pharmacology. 3 hrs. Prerequisites: Vertebrate biology and organic chemistry. The response of living organisms to drugs.

510. Electron Microscopy. 1 hr. Theory and use of the electron microscope and associated instrumentation, and darkroom techniques.

510-L. Electron Microscopy Laboratory. 2 hrs.

511. Histology. 4 hrs. Prerequisite: 12 hours of biology. Microscopic anatomy of mammalian organ systems.

511-L. Histology Laboratory. Must be taken concurrently with BIO 511; no separate credit given for the laboratory.

512. Microtechnique. 1 hr. Techniques for sectioning, mounting, and staining tissue and making whole mounts.

512-L. Microtechnique Laboratory. 2 hrs.

515. Pathobiology. 2 hrs. Prerequisite: BIO 411 or 511. Principles of histopathology of vertebrates and invertebrates.

515-L. Pathobiology Laboratory. 1 hr.

520. Embryology. 2 hrs. Maturation, fertilization, cleavage, histogenesis, and organogenesis.

520-L. Embryology Laboratory. 2 hrs.

522. Advanced Embryology. 2 hrs. Prerequisite: BIO 420 or 520. Factors which activate or regulate developmental processes.

522-L. Advanced Embryology Laboratory. 1 hr.

523. Protozoology. 2 hrs. Introduction to parasitic and free-living protozoa.

523-L. Protozoology Laboratory. 1 hr.

524. Human Parasitology. 3 hrs. Life histories, medical significance, and diagnosis of helminths and protozoa parasitic in man.

524-L. Human Parasitology Laboratory. 1 hr.

526. Medical Entomology. 2 hrs. Prerequisite: Consent of instructor. Arthropod vectors and agents of disease.

526-L. Medical Entomology Laboratory. 1 hr.

528. Environmental Physiology. 2 hrs. Physiological adaptations enabling animals to meet environmental challenges.

528-L. Environmental Physiology Laboratory. 1 hr.

529. Invertebrate Physiology. 2 hrs. A functional approach to the major invertebrate phyla.

529-L. Invertebrate Physiology Laboratory. 1 hr.

530. Mammalian Physiology. 3 hrs. The functions of mammalian systems; interrelationships and regulation are emphasized.

530-L. Mammalian Physiology Laboratory. 1 hr.

532. General Physiology. 3 hrs. Organismic function and the adaptations which characterize major animal groups.

532-L. General Physiology Laboratory. 1 hr.

534. Endocrinology. 3 hrs. Prerequisite: Consent of instructor. Survey of the endocrine system and its regulation of physiological processes.

535. Ethology. 3 hrs. Classical and current concepts of animal behavior including individual and social behavioral patterns.

535-L. Ethology Laboratory. 1 hr.

536. Invertebrate Zoology I. 2 hrs. Functional morphology, systematics, and life histories of the phyla Porifera through the minor protostomes.

536-L. Invertebrate Zoology I Laboratory. 1 hr.

537. Invertebrate Zoology II. 2 hrs. Prerequisite: BIO 536. Functional morphology, systematics, and life histories of invertebrate phyla through the Hemichordata.

537-L. Invertebrate Zoology II Laboratory. 1 hr.

538. Entomology. 2 hrs. Structural adaptations, classification, life histories and habits, and the economic importance of insects.

538-L. Entomology Laboratory. 1 hr.

539. Arachnida Biology. 2 hrs. Biology, morphology, and classification of the arachnids.

539-L. Arachnida Biology Laboratory. 1 hr.

540. Ichthyology. 2 hrs. Collection, preservation, and identification of local fresh water fishes and fish-like vertebrates.

540-L. Ichthyology Laboratory. 1 hr.

541. Ornithology. 2 hrs. Prerequisite: BIO 320 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of birds.

541-L. Ornithology Laboratory. 1 hr.

542. Mammalogy. 2 hrs. Prerequisite: BIO 320 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of mammals.

542-L. Mammalogy Laboratory. 1 hr.

543. Principles of Nomenclature. 3 hrs. Prerequisite: Consent of instructor. Discussions and problems in biological nomenclature.

544. Biology of Fishes. 2 hrs. Prerequisite: Consent of instructor. Systematics and ecology of fishes.

544-L. Biology of Fishes Laboratory. 1 hr.

545. Introduction to Fishery Science. 2 hrs. A survey of the biology, management, and potential yield of fish populations.

545-L. Introduction to Fishery Science Laboratory. 1 hr.

548. Introductory Mycology. 2 hrs. Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of fungi.

548-L. Introductory Mycology Laboratory. 1 hr.

549. Introductory Phycology. 2 hrs. Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of the algae.

549-L. Introductory Phycology Laboratory. 1 hr.

550. Plant Anatomy. 2 hrs. A study of the anatomy of vascular plants.

550-L. Plant Anatomy Laboratory. 1 hr.

551. Bryophytes and Vascular Plants. 3 hrs. Life cycles, evolution, and morphology of bryophytes and vascular plants.

- 551-L. **Bryophytes and Vascular Plants Laboratory.** 1 hr.
553. **Aquatic and Marsh Plants.** 2 hrs. Collection, identification, and ecology of plants of fresh and brackish water.
- 553-L. **Aquatic and Marsh Plants Laboratory.** 1 hr.
554. **Plant Physiology.** 2 hrs. Prerequisite: Organic chemistry recommended. The basic physiological processes of green plants.
- 554-L. **Plant Physiology Laboratory.** 1 hr.
555. **Economic Botany.** 2 hrs. Origin, distribution, and significance of plants most important to man.
- 555-L. **Economic Botany Laboratory.** 1 hr.
557. **Taxonomy of Local Flora.** 2 hrs. The classification of the local flora.
- 557-L. **Taxonomy of Local Flora Laboratory.** 1 hr.
558. **Dendrology.** 2 hrs. The taxonomic and ecological characteristics, and the distribution of trees.
- 558-L. **Dendrology Laboratory.** 1 hr.
560. **Zoogeography.** 3 hrs. Prerequisite: Consent of instructor. A descriptive and analytical study of the distribution of animals.
561. **Ecology.** 2 hrs. Prerequisite: Consent of instructor. Interrelationships among living and non-living components of ecosystems.
- 561-L. **Ecology Laboratory.** 1 hr.
562. **Population and Community Ecology.** 2 hrs. Collection, analysis, and interpretation of data on natural populations and communities.
- 562-L. **Population and Community Ecology Laboratory.** 1 hr.
563. **Behavioral Ecology and Sociobiology.** 3 hrs. The adaptive significance of behavior.
565. **Freshwater Biology.** 1 hr. Prerequisite: Consent of instructor. Theory and application of biological methods used to study freshwater ecosystems.
- 565-L. **Freshwater Biology Laboratory.** 2 hrs.
566. **Limnology.** 2 hrs. Prerequisites: BIO 561 and consent of instructor. The physical, chemical, and biological dynamics of inland standing waters.
- 566-L. **Limnology Laboratory.** 1 hr.
567. **Introduction to Biological Oceanography.** 2 hrs. Marine biological regimes and the influence of geological, physical, and chemical oceanographic factors.
- 567-L. **Introduction to Biological Oceanography Laboratory.** 1 hr.
568. **Aquaculture.** 2 hrs. Prerequisites: 12 hours of biology and 8 hours of chemistry. Production of aquatic organisms in natural and artificial environments.
- 568-L. **Aquaculture Laboratory.** 1 hr.
570. **Natural History of Infectious Diseases.** 3 hrs. A study of infectious diseases and their effect on man.
572. **Natural History of Animals.** 1 hr. Prerequisite: Consent of instructor. Life histories of animals. Designed for teachers.
- 572-L. **Natural History of Animals Laboratory.** 2 hrs.
573. **Natural History of Plants.** 1 hr. Prerequisite: Consent of instructor. Life histories of plants. Designed for teachers.

573-L. **Natural History of Plants Laboratory.** 2 hrs.

575. **Plant Ecology.** 2 hrs. Prerequisite: Advanced standing in botany. Relationship of plants to their environment.

575-L. **Plant Ecology Laboratory.** 1 hr.

593. **Field Biology.** 2-6 hrs. arr. Ecological and taxonomic studies. Offered between semesters as 4- to 12-day field trips.

638. **Aquatic Insect Ecology.** 2 hrs. Prerequisites: BIO 438, 461, 465.

638-L. **Aquatic Insect Ecology Laboratory.** 1 hr.

692. **Biological Problems.** 1-6 hrs. Designed for majors with a need for certain basic techniques for research.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but are working on a thesis and using University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

703. **Advanced Botany.** 2 hrs. The general physiology and ecology of seed plants.

703-L. **Advanced Botany Laboratory.** 1 hr.

704. **Biological Photography.** 2 hrs. Techniques of biological photography.

705. **Analytical Methods in Biological Research.** 2 hrs. Prerequisite: Consent of instructor. Special techniques of data gathering and interpretation.

705-L. **Analytical Methods in Biological Research Laboratory.** 1 hr.

716. **Cell Ultrastructure.** 3 hrs. Prerequisite: Permission of instructor. Structure and function of cells and cell organelles at the sub-cellular level.

717. **Techniques in Scanning Electron Microscopy.** 2 hrs. Operation, specimen preparation, and x-ray spectroscopy.

718. **Cytochemical Techniques.** 2 hrs. Prerequisite: BIO 410. Cytochemical characterization of biological significant compounds at microscopic levels.

718-L. **Cytochemical Techniques Laboratory.** 1 hr.

721. **Advanced Herpetology.** 2 hrs. Systematics, natural history, distribution, and economic importance of reptiles and amphibians.

721-L. **Advanced Herpetology Laboratory.** 1 hr.

727. **Speciation.** 3 hrs. Origin and species of evolution.

728. **Planktology.** 2 hrs. Prerequisite: Permission of instructor. Morphological adaptations and life histories of plankton.

728-L. **Planktology Laboratory.** 1 hr.

730. **Helminthology.** 3 hrs. Prerequisite: Consent of instructor. Readings and discussions of selected papers on helminthology.

731. **Physiology of Marine Animals.** 3 hrs. The environmental physiology of marine animals.

732. **Seminar in Animal Behavior.** 3 hrs. Special topics in ethology, in areas of individual interest.

733. **Seminar in Physiology.** 2 hrs. Special topics in physiology in areas of individual interest.

760. **Topics in Marine Biology.** 2 hrs. Current topics in marine research.

763. **Fisheries Biology.** 2 hrs. Prerequisite: BIO 445 or consent of instructor. Statistics and management of exploited fish populations.

- 763-L. **Fisheries Biology Laboratory.** 1 hr.
765. **Biological Oceanography.** 2 hrs. Prerequisites: BIO 462 or 562. The sea as a biological environment.
- 765-L. **Biological Oceanography Laboratory.** 1 hr.
767. **Marine Ecology.** 2 hrs. Prerequisite: BIO 462 or 562. The marine environment and the ecology of marine organisms.
- 767-L. **Marine Ecology Laboratory.** 1 hr.
789. **Biology Seminar.** 1 hr. The presentation of current concepts in special areas of individual interest.
791. **Research in Biology.** 1-9 hrs. Prerequisite: Approval of the major professor.
792. **Special Problems.** 2-6 hrs.
793. **Research in Zoology.** 1-6 hrs.
797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but are working on a dissertation and using University facilities must enroll in this course.
898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

COURSES TAUGHT AT THE GULF COAST RESEARCH LABORATORY IN OCEAN SPRINGS BY THE GULF COAST RESEARCH LABORATORY STAFF

581. **Marine Vertebrate Zoology.** 6 hrs. Lecture and laboratory survey of marine chordates, including fishes, reptiles, mammals, and shore birds.
583. **Marine Invertebrate Zoology.** 6 hrs. Morphology, distribution and ecology of the phyla from Protozoa through Protochordates.
585. **Parasites of Marine Animals.** 6 hrs. Prerequisite: Permission of instructor. Emphasis on morphology, taxonomy, life histories, and host-parasite relationships.
586. **Salt Marsh Ecology.** 4 hrs. The botanical aspects of local marshes; includes plant identification, composition, and structure.
587. **Marine Aquaculture.** 6 hrs. Problems and procedures relating to the culture of commercially important crustaceans, fish, and mollusks.
589. **Marine Botany.** 6 hrs. Prerequisites: General botany and plant taxonomy. A survey of the principal groups of marine algae.
781. **Marine Fisheries Management.** 6 hrs. Prerequisite: Statistics recommended. A statistical review of the world fisheries.
783. **Biological Electron Microscopy I.** 3 hrs. An introduction to the fundamentals of electron microscopy.
784. **Biological Electron Microscopy II.** 3 hrs. Prerequisite: BIO 783. Special techniques, operation, and maintenance of an electron microscope.
785. **Marine Microbiology.** 5 hrs. Prerequisites: General microbiology/or consent of instructor. Microbial flora of representative environments.
787. **Research in Marine Biology.** 2-6 hrs.

BUSINESS EDUCATION (BED-105)

551. **Project Method in Distributive Education.** 3 hrs. Project; individualized instructional materials; laboratory activities; evaluation; and research.

552. History and Philosophy of Vocational Education. 3 hrs. For Business and Distributive Education Teachers Only. History, concepts, trends, occupations, employment opportunities, procedures, and techniques.

553. Techniques of Coordination. 3 hrs. Techniques and procedures used in coordinating office occupations and DE programs.

554. Methods and Materials in Teaching Distributive Education. 3 hrs. Principles, concepts, program plans, curricula, methods and materials, activities, research, and evaluation.

555. Organization and Administration of Distributive Education. 3 hrs. Basic problems, objectives, and characteristics of DE programs as applied in their development.

560. Office Management. 3 hrs. Principles of management, organization and supervision, data processing, layout, machines, personnel, forms, reports and services.

575. Legal Secretaryship. 3 hrs. Prerequisite: BED 305 and 310 or equivalent. A course stressing the professional aspects of legal secretarial practices and procedures.

576. Medical Office Procedures and Records Management. 3 hrs. Prerequisite: BED 102 or equivalent. Emphasis on the professional aspects of the work of a medical secretary.

577. Medical Transcription. 3 hrs. Prerequisite: BED 102 or equivalent. Emphasis on medical terminology, records, forms, and letters, with limited transcription.

578. Advanced Medical Transcription. 3 hrs. Prerequisite: BED 577. Emphasis on additional medical terminology, with increased emphasis on transcription.

579. Review for the Certified Professional Secretary Examination. 3 hrs. Prerequisites: Typewriting and shorthand skills. Preparation for CPS Examination. Does not count as credit toward a degree.

580. Research and Report Writing. 3 hrs. Concepts and methods of business research and style; problems in researching and reporting business data in written form.

592. Special Problems. 1-6 hrs. Study approved and directed by the department chairman.

604. Foundations in Business Education. 3 hrs. Examination and analysis of the history and philosophy of business education.

608. Curriculums in Business Education. 3 hrs. Factors influencing curriculum construction; content organization, instructional materials, and techniques.

651. Principles of Business Education. 3 hrs. Junior high through university programs; guidance; qualifications and professional activities of teachers; and public relations.

652. Seminar in Business Education. 3 hrs. An intensive study of specific problems in business education, and a survey of literature pertaining to the problems.

653. Improvement of Instruction in Bookkeeping and Related Basic Skills. 3 hrs. Methodology; instructional materials; evaluation; review of significant research.

654. Improvement of Instruction in Basic Business. 3 hrs. Objectives, teaching procedures, instructional materials, and related problems. Related research is studied.

655. Improvement of Instruction in Typewriting and Related Skills. 3 hrs. Teaching procedures; instructional materials; measurement of skills; standards of achievement; review of related research.

656. Improvement of Instruction in Shorthand and Transcription. 3 hrs. Methodology; instructional materials; transcription problems; standards of achievement; review of related research.

669. Measurement and Evaluation in Business Education. 3 hrs. Concept of evaluation; construction, selection, administration, and scoring of tests; review of related research.

670. Problems in Vocational Cooperative Office Education. 3 hrs. Analysis of problems in administering cooperative office education programs.

680. Readings in Business Education. 3 hrs. Readings in both periodical literature and research. Presentation of findings in a scholarly report. Approval of department chairman required.

691. Research in Business Education. 1-9 hrs.

692. Special Problems I, II, III. 1 hr. each. Prerequisite: 9 semester hours of advanced courses in business education. Scholarly paper on approved problem.

694. Field Problems. 3 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis, and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

701. Seminar in Business Education. 3 hrs. Analysis and evaluation of significant research studies in the field of business education and research of a problem.

750. Business Education in the Junior College. 3 hrs. Forces affecting junior college business curricula; philosophy; programs; public relations; trends, and related research.

760. Administration and Supervision of Business Education. 3 hrs. Principles; techniques of administration and supervision of business education in junior high, senior high, evening schools, and colleges.

780. Readings in Business Education. 3 hrs. Readings in both periodical literature and research. Presentation of findings in a scholarly report.

791. Research in Business Education. 1-9 hrs.

794. Field Problems. 1-3 hrs.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs.

CHEMISTRY (CHE-320)

500. Chemical Literature. 2 hrs. Prerequisites: CHE 352 and 311. The selection and use of the reference materials of chemistry: periodicals, journals, texts, patents, and other sources of information.

502. Chemistry of the Atmosphere. 4 hrs. Prerequisite: CHE 311. Radiocarbon cycle, atmospheric photochemistry, weather patterns, greenhouse effect, combustion pollutants, health hazards.

503. Industrial Chemistry. 4 hrs. Prerequisite: Permission of the instructor. Important processes used in industry. Invited industrial representatives and plant visits keep the topics current and useful.

505. Problems in Chemistry. 3-6 hrs. Prerequisite: Undergraduate coursework in the area and permission of the instructor. An intensive review of specialized areas in chemistry.

511. Instrumental Analysis. 4 hrs. Prerequisite: CHE 462. Theory and practice of instrumental methods of analysis; absorption spectroscopy, magnetic resonance, mass spectroscopy, electrometric methods and fundamental electronics. Includes three hours of laboratory per week.

521. Biochemistry I. 3 hrs. Prerequisite: 352. The properties of amino acids, proteins, carbohydrates, lipids, and nucleic acids; actions of enzymes and protein synthesis.

522. Biochemistry II. 3 hrs. Prerequisite: 521. Major metabolic pathways with emphasis on energy considerations and inter-relationships of the pathways.

526. Introduction to Biochemistry. 3 hrs. Prerequisite: CHE 462. A one semester survey course emphasizing the chemical principles of biochemistry.

527-L. Biochemistry Laboratory. 1 hr. Corequisite: CHE 521 or CHE 526. An optional laboratory course to accompany CHE 521 or CHE 526.

528-L. Advanced Biochemistry Laboratory. 1 hr. Prerequisite: CHE 527-L. Corequisite: CHE 522. A continuation of CHE 527.

531. Inorganic Chemistry. 4 hrs. Prerequisite: CHE 462. Models, concepts, bonding, structural and periodic trends. Includes 3 hours of laboratory per week.

532. Descriptive Inorganic Chemistry. 3 hrs. Prerequisite: CHE 531. Electronic states, transitions, and spectra, coordination chemistry, reaction kinetics, boron hydrides, other topics.

541. Application of Nuclear Techniques. 4 hrs. Prerequisite: CHE 462. Topics include radiation detection, shielding, handling, tracer methods and decay calculations. Includes 3 hours of laboratory per week.

551. Qualitative Organic Analysis. 4 hrs. Prerequisite: CHE 352. The systematic identification of pure organic compounds and the analysis of mixtures. Includes 6 hrs. of laboratory per week.

561. Physical Chemistry. 3 hrs. Prerequisite: CHE 352, PHY 202 and MAT 277 or 278. Corequisite: CHE 311. Chemical thermodynamics, kinetics, surface phenomena, quantum chemistry, symmetry, spectroscopy, and molecular structure.

561-L. Laboratory for CHE 561. 1 hr. A laboratory designed to accompany CHE 561. Concurrent registration in CHE 561 is required.

562. Physical Chemistry. 3 hrs. Prerequisite: CHE 561. A continuation of CHE 561.

562-L. Laboratory for CHE 562. 1 hr. A laboratory designed to accompany CHE 562. Concurrent registration in CHE 562 is required.

601. Introductory Structural Chemistry. 3 hrs. Prerequisite: Permission of the instructor. A study of symmetry including group theory and point group designation, stereochemistry, and the origin of spectra.

602. Spectral Elucidation of Structure. 3 hrs. Prerequisite: Permission of the instructor. Applications of vibrational, electronic, nuclear magnetic resonance, and mass spectroscopy to structure determination.

603. Introduction to Kinetics and Synthesis. 3 hrs. Prerequisite: Permission of the instructor. An introduction to kinetics, synthesis (a general approach to both inorganic and organic), and separations.

605. Chemical Analysis I. 2 hrs. Prerequisites: CHE 311 and CHE 352. Separation methods including chromatography and centrifugation. Includes three hours of laboratory per week.

606. Chemical Analysis II. 2 hrs. Prerequisites: CHE 311 and CHE 352. NMR, ESR, mass spectrometry and x-ray diffraction. Includes three hours of laboratory per week.

607. Chemical Analysis III. 2 hrs. Prerequisites: CHE 311 and CHE 352. IR, UV-visible, ORD, CD, AA spectroscopy, flame photometry and fluorimetry. Includes three hours of laboratory per week.

608. Chemical Analysis IV. 2 hrs. Prerequisites: CHE 311 and CHE 352. Radiochemical, electrochemical, electrophoretic and thermal analysis. Data handling. Includes three hours of laboratory per week.

611. Advanced Analytical Chemistry. 3 hrs. Prerequisite: CHE 411 or permission of instructor. Sampling techniques, equilibria and activity, chemical and physical separations, and chemical methods of analysis.

612. Advanced Chemical Analysis. 3 hrs. Prerequisite: CHE 611. Chemical methods of analysis. Complexometric non-aqueous methods, kinetic effects, and recent advances.

621. Advanced Biochemistry. 3 hrs. Prerequisite: Permission of instructor. The inter-relationships of metabolic pathways with emphasis on control mechanisms.

631. Advanced Inorganic Chemistry. 3 hrs. Prerequisite: CHE 601. Stereochemistry, group theory and related spectroscopy, inorganic polymers, chelates, acid-base concepts, transition metals, lanthanides and actinides.

632. Inorganic and Organic Preparations. 2-4 hrs. Prerequisite: Permission of instructor. Experience in specialized synthetic techniques including inert atmosphere vacuum line, nonaqueous and large scale preparations.

651. Advanced Organic Chemistry. 3 hrs. Prerequisite: Successful completion of Organic Qualifying Examination or in special instances, permission of the instructor. The structure of organic compounds and its relationship to chemical bonding, stereochemistry, resonance, and reactivity.

652. Advanced Synthetic Organic Chemistry I. 3 hrs. Prerequisite: CHE 651. The synthesis of organic compounds emphasizing modern reagents and methods.

653. Advanced Synthetic Organic Chemistry II. 3 hrs. Prerequisite: CHE 652. Reaction pathways. Both ground-state and excited-state (photochemical) processes will be examined.

661. Advanced Physical Chemistry. 3 hrs. Prerequisite: Successful completion of Physical Chemistry Qualifying Examination, or in special instances, permission of the instructor. Molecular and thermodynamic basis for chemical phenomena. Emphasis: Applications of thermodynamics and statistical thermodynamics to chemical disciplines.

689. Chemistry Seminar. 1 hr.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Prerequisite: Consultation with and permission of major professor.

701. Chemical Applications of Combined Gas Chromatography/Mass Spectrometry/Data Systems. 3 hrs. Prerequisite: Permission of instructor. An introductory study of the GC/MS/DS technique and its utilization in chemical problem solving.

702. Photochemistry. 3 hrs. Prerequisite: CHE 651 or permission of instructor. An introduction to the physical and chemical properties of the excited state.

711. Analytical Spectroscopy. 3 hrs. Prerequisite: CHE 411. Quantitative determinations by I.R., visible, U.V., and x-ray spectroscopy techniques including atomic emission and absorption.

712. Advanced Chemical Instrumentation. 3 hrs. Prerequisite: Permission of instructor. The chemical, electrical, and physical problems encountered in automatic measurement and control instrumentation.

713. Analytical Separations. 3 hrs. Prerequisite: Permission of instructor. Gas, ion exchange, and thinlayer chromatography; precipitation and crystallization; zone refining and electromigration.

721. Proteins. 3 hrs. Prerequisite: CHE 521 or permission of instructor. Protein purification, methods of primary, secondary, and tertiary structure determinations, and the relationship between structure and biological activities.

722. Physical Biochemistry. 3 hrs. Prerequisite: CHE 521. Application of physical-chemical methods to the study of biological macromolecules.

723. Enzymes. 3 hrs. Prerequisite: CHE 521. Mechanisms of enzyme action, and the kinetics, regulation, and synthesis of enzymes.

725. Lipids. 3 hrs. Prerequisite: Permission of instructor. Study of the structure, functions, and metabolism of lipids.

726. Hormone Biochemistry. 3 hrs. Prerequisite: Permission of instructor. The structure, biosynthesis, secretion, regulation, and mode of action of hormones.

731. Coordination Chemistry. 3 hrs. Prerequisites: CHE 631 and CHE 661. Molecular orbital and ligand field treatments of various complexes. Emphasis on electronic vibronic transitions.

733. Chemistry of the Representative Elements. 3 hrs. Prerequisites: CHE 631 and 661. The chemistry and bonding properties of the non-metallic elements. Emphasis is on the current literature.

734. Physical Methods of Inorganic Chemistry. 3 hrs. Prerequisite: CHE 631. An in-depth study of physical tools pertinent to inorganic chemistry and to interpretation of and limits of experimental results.

741. Nuclear Chemistry. 4 hrs. Prerequisite: Permission of instructor. Topics: interactions of radiation with matter, nature of radioactivity, radioactive decay, radiation detection nuclear reactions, tracer applications. Includes 3 hrs. of laboratory per week.

751. Physical Organic Chemistry. 3 hrs. Prerequisite: CHE 651. Selected topics including application and use of quantum mechanisms, kinetics, cryoscopy, isotopes, etc., to organic chemistry.

752. Mechanisms of Organic Reactions. 3 hrs. Prerequisite: CHE 651. Mechanisms of organic reactions with emphasis on stereochemistry, kinetics, thermodynamics, and new developments as reported in the chemical literature.

753. Polymer Chemistry I. 3 hrs. Prerequisite: CHE 653 and permission of instructor. Selected polymer systems, polymerization mechanisms, structure-property relationships, and methods of evaluation.

754. Polymer Chemistry II. 3 hrs. Prerequisite: CHE 753. Selected polymer systems, polymerization mechanisms, structure-property relationships and methods of evaluation.

761. Special Topics in Statistical Thermodynamics. 3 hrs. Prerequisite: CHE 661 or permission of instructor. Statistical mechanical theory and techniques applied to calculations of thermodynamics properties. Topics: theory of liquids, real gas behavior, etc.

762. Structural Chemistry. 3 hrs. Prerequisites: CHE 601, 631, and 662. Theoretical examination of vibrational and rotational spectroscopy, NMR, ESR, and diffraction from the standpoint of elementary quantum mechanics and group theory.

763. Introduction to Quantum Chemistry. 3 hrs. Prerequisite: CHE 661 or permission of instructor. Development of quantum theory relating to energy levels and bonding in chemical systems.

764. Elements of Diffraction. 4 hrs. Scattering, phase relationships, and structural techniques via diffraction for gases, liquids, solutions, and solids. Includes 3 hours of laboratory per week.

789. Chemistry Seminar. 1 hr.

791. Research in Chemistry. 1-9 hrs. Prerequisite: Approval of major instructor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

811. Analytical Electrochemistry. 3 hrs. Prerequisite: Permission of instructor. Thermodynamics of electrochemistry, theoretical derivation of electrochemical techniques and applications thereof.

821. Biosynthetic Pathways. 3 hrs. Prerequisite: Permission of instructor. An in-depth study of selected metabolic pathways.

822. Nucleic Acid and Protein Synthesis. 3 hrs. Prerequisite: CHE 621 or permission of instructor. Protein and nucleic acid biosynthesis, with emphasis on biological control mechanisms.

831. Organometallic Compounds. 3 hrs. Prerequisites: CHE 631 and 651 or permission of instructor. The preparation, structure, physical properties and chemical reactions of compounds containing carbon-metal and carbon-metalloid bonds.

841. Radiation Chemistry. 3 hrs. Prerequisites: CHE 561 and permission of instructor. Interaction of radiation with matter. Topics: Radiation dosimetry, ions and excited molecules, ion-molecule reactions, free radicals.

851. A Survey of Heterocyclic Chemistry. 3 hrs. Prerequisite: CHE 651. Nomenclature, synthesis, and reactions of the more common heterocyclic system.

861. Special Topics in Quantum Chemistry. 3 hrs. Prerequisite: CHE 661. Topics of current interest in quantum chemistry such as magnetic resonance, electron spectroscopy, etc.

862. **Chemical Kinetics.** 3 hrs. Experimental techniques of measuring chemical reaction rates and the mathematical treatment of rate data.

863. **Surface Chemistry.** 3 hrs. Prerequisite: Permission of instructor. Surface phenomena: catalysis, absorption, ion exchange and electrical properties.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

CHILD DEVELOPMENT (CD-805)

551. **Infant Development.** 3 hrs. Emphasis will be given to the development and behavior of the infant.

552. **Child Development Methods and Materials.** 3 hrs. Provisions are made to evaluate and select materials for use in developing teaching techniques and planning play activities for children.

553. **Creative Activities for the Preschool Child.** 3 hrs. A study of creative activities for preschool children with practical experiences provided.

554. **Participation Experiences in the Infant Development Center.** 3 hrs. Directed participation as an assistant in the Infant Development Center for one semester.

555. **Supervised Participation.** 4 hrs. Directed participation as an assistant in the Nursery School for one semester.

559. **Symposium in Child Development.** 3 hrs. May be repeated for a total 6 hours.

650. **Advanced Child Development.** 3 hrs. A study of the child through the preschool years, investigated in light of personality development theories and current research.

651. **Administration of Programs for Young Children.** 3 hrs. The evaluation of policies and procedures, organizational structure, and management of centers for preschool children.

652. **Current Trends and Theories in the Field of Child Development.** 3 hrs. A survey of selected theories in Child Development and an examination of current problems and critical issues.

654. **Seminar in Child Development.** 3 hrs. May be repeated for a total of 6 hours.

691. **Research in Child Development.** 1-4 hrs.

692. **Special Problems in Child Development.** 1-4 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

COMMUNICATION (COM-208)

600. **Communication Theory and Research.** 3 hrs. A survey of major research traditions in the field of communication. Topics will include persuasion, nonverbal communication, networks, and theories of communication.

605. **Interpersonal Communication.** 3 hrs. A comparative approach to the study of interpersonal communication theories and methods.

609. **Communication Seminar.** 3 hrs. A rotating seminar that addresses topics in the three areas of Radio-TV-Film, Journalism, and Speech Communication.

610. Problems in Business and Industrial Communication. 3 hrs. Analysis of work organizations as communication networks. Emphasis on identification, analysis of selected problems, consultation methods, and administration of communication training programs. Field project.

625. Process and Effects of Mass Communication. 3 hrs. A study of the major areas of mass communication research literature, emphasizing mass communication effects research.

691. Research in Communication. 1-9 hrs. For independent reading projects of broad general nature. Normally limited to topics not covered in regular courses.

692. Special Problems. 3 hrs. For independent research projects designed to answer specific questions in applied or theoretical communication.

697. Independent Study and Research. No credit. Not to be counted as credit toward a degree. Students who are not in residence but who are working actively on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis in Public Address or Communication. 6 hrs.

720. Introduction to Graduate Research in Communication. 1-9 hrs. Analysis of types of problems, concepts, variables, definitions, designs measurement techniques, and interpretation of data prevalent in communication research. Involves elementary statistics and development of research proposals and designs.

721. Content Analysis of Communication. 3 hrs. Study of theory and methods of defining, categorizing, coding, and interpreting verbal and non-verbal elements of the communication process. Emphasizes source and message elements. Elementary statistical analysis, research report, and design of studies.

722. Communication Research Methods. 3 hrs. A study of the techniques and strategies used in conducting empirical studies of communication. Topics will include measurement, sampling, and content analysis.

730. Theory and Research in Small Group Communication. 3 hrs. A study of human interaction in small group settings and the determinants and effects of such interaction.

747. International Communication Systems. 3 hrs. An overview of international communications: comparative broadcasting systems, international broadcasting, world press.

791. Research in Communication. 3 hrs. For independent reading projects of a broad general nature. Normally limited to topics not covered in regular courses.

792. Special Problems. 3 hrs. For independent research projects designed to answer specific questions in applied or theoretical communication.

797. Independent Study and Research. Hrs. arr. Not to be counted toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

809. Communication Seminar. 3 hrs. A rotating seminar that addresses topics in the three areas of Radio-TV-Film, Journalism, and Speech Communication.

862. Seminar in Mass Media Control and Ethics. 3 hrs. Alternate years. Problems and case studies concerned with regulation, deregulation, industry codes, and ethics.

898. Dissertation. 1-6 hrs. to a total of 6 hrs.

Journalism (JOU-212)

505. Problems in Newspaper Production. 3 hrs. Practical training in the production of student newspapers and advising of staffs.

521. Public Relations. 3 hrs. Introduction to the professional practice of public relations, emphasizing its function and process, publics, tools and media of communications, and professional ethics.

522. Publicity Methods. 3 hrs. Concentrates on designing total public relations packages for public, business, and non-profit organizations. Requires production of a publicity campaign.

525. Business and Professional Publications. 3 hrs. Writing, editing, designing, and producing publications used in public relations communication with emphasis on magazines.

528. Public and Press Relations Management. 3 hrs. Emphasizes systematic analysis of clients and publics, formulation of goals and strategies, and multimedia communications. Evaluation of effectiveness and budget preparation included. Case studies and field project.

529. Internship in Public Relations. 3 hrs.

552. Press and Society. 3 hrs. Study of the relationship between the press and the culture and institutions of society.

570. Newspaper Organization and Management. 3 hrs. Study of the interrelationships of the various departments in newspaper organizations of varying circulation sizes and management techniques used to direct their activities.

Radio-Television-Film (RTF-200)

507. Theories of Mass Communication. 3 hrs. An analysis of processes and effects of mass communication.

516. Radio Station Management. 3 hrs. This course offers the student an opportunity to make economic and managerial decisions in a problem-solving format. Students may use a computer simulation game in broadcast economics that includes ratings analyses, advertising cost factors, and sales-management problems.

525. Audience Analysis. 3 hrs. Essential concepts of audience measurement used in survey research are covered. Students receive practical experience in sample selection, survey instrument design, data collection and analysis, and research report writing.

531. Advertising Management and Sales. 3 hrs. Prerequisite: RTF 330. A continuation of RTF 330, with emphasis upon case studies in advertising management and sales.

547. Television Production Workshop. 2 hrs. Prerequisites: RTF 340 and 440 or permission of instructor. A flexible format course designed to serve the career objectives and needs of advanced students. The workshop may involve large or small group productions or individual projects, or some combinations.

548. Seminar in Radio-TV. 3 hrs. Seminar topics vary depending upon faculty member and expressed interests of students. Recent topics have included: (1) Television Criticism; and (2) Social Effects of the Mass Media.

560. Issues in Broadcasting. 3 hrs. The reasons behind the present structure of the U.S. broadcasting system are explored in detail through a legal/historical treatment of major past and present "issues in broadcasting."

574. Techniques in Film Acting and Directing. 3 hrs. A course designed for advanced film and acting students in the techniques of performing before the motion picture camera.

577. Advanced Film Production Workshop. 3 hrs. Prerequisite: Consent of instructor. Students enrolled in this course will serve as director, cinematographer or film editor of a complete 16mm motion picture production.

578. Seminar in Film. 3 hrs. Seminar subjects vary. Past content has included the study of production management and labor relations, the experimental film, and the documentary film.

579. French Cinema. 3 hrs.

692. Special Problems in Radio, Television, and Film. 1-3 hrs. Prerequisite: Consent of instructor. The student analyzes a problem area and proposes a special course arrangement with a faculty member. Problems range from television, film productions, writing scripts, to writing extensive research papers.

Speech Communication (SCM-216)

503. Political Communication. 3 hrs. A study of political communication and voter behavior in America. Taught only in the fall of election years so that the current campaign may be used as a case study. The course focuses on the political campaign as a specialized approach to mass persuasion.

510. Organizational Communication I: Theory and Process. 3 hrs. A survey of approaches to the study of organizational communication and aspects of the communication process within organizations.

512. Workshop in Coaching Debate and Platform Events. 3 hrs.

520. Organizational Communication II: Assessment and Training. 3 hrs. A survey of methods for determining the quality and kind of communication within organizations and training methods for improving organizational communication.

550. Seminar in Speech Communication. 3 hrs.

590. Theories of Speech Communication. 3 hrs. A survey of theoretical perspectives on speech communication, e.g., psychological, rhetorical, linguistic, and human relations.

COMPARATIVE LITERATURE (CLT-230)

691. Research. 3 hrs. May be taken for a total of nine hours.

692. Special Problems. 2-6 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs.

701. Introduction to Comparative Literature. 3 hrs.

750. Comparatist History of World Literature. 3 hrs. May be taken for a total of twelve hours of credit when topics vary.

760. Principles of Comparatist Interpretation. 3 hrs. May be taken for a total of twelve hours of credit when topics vary.

791. Research in Comparative Literature. 1-12 hrs.

792. Special Problems. 2-6 hrs. arr.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. Dissertation. 1-6 hrs. for a total of 6 hours.

COMPUTER SCIENCE AND STATISTICS (CSS-330)

500. Computing for Secondary/Junior College Teachers. 3 hrs. State of the art study in utilizing the computer as a tool in the classroom. The development of courseware using TRS-80 microcomputers.

501. Computer Skills for Research. 3 hrs. Prerequisite: CSS 240. Editing of data files, computer system utilization, use of BMD, SPSS, MINITAB for processing research data.

515. Methods of Mathematical Statistics I. 3 hrs. Prerequisite: Permission of instructor. Continuous and discrete distribution, t-test, Chi-square test and analysis of variance.

516. Methods of Mathematical Statistics II. 3 hrs. Prerequisite: CSS 515. Orthogonal polynomial contrasts, multi-way classification anova, simple and multiple linear regression, polynomial regression.

517. Experimental Design. 3 hrs. Prerequisite: CSS 516. Factorials, randomized blocks, split-plot, fractional factorials and confounding.

518. Sampling Methods. 3 hrs. Prerequisite: CSS 515. The planning, execution and evaluation of sample surveys. Simple random sampling, stratified random sampling, cluster sampling.

541. Programming Languages. 5 hrs. Prerequisite: Experience in coding. A survey of programming languages such as ALGOL, APL, SNOBOL 4, PL/I, and PASCAL.

542. Business Computer Systems. 3 hrs. Prerequisite: CSS 342. A review of COBOL and advanced COBOL concepts as well as algorithms used in design of business systems.

562. Software III. 3 hrs. Prerequisite: CSS 341 or permission of instructor. An in-depth study of operating systems.

570. Digital Systems I. 3 hrs. Prerequisite: Permission of instructor. Symbolic logic, Boolean algebra for descriptions and analysis of switching circuits, basic sequential circuits.

570-L. Digital Systems I Laboratory. 1 hr. Corequisite: CSS 570.

571. Digital Systems II. 3 hrs. Prerequisite: CSS 570. A study of control units, arithmetic units, memories and microprogramming concepts.

571-L. Digital Systems II Laboratory. 1 hr. Corequisite: CSS 571.

576. Continuous Systems Modeling and Simulation. 3 hrs. Prerequisite: CSS 323, 577. Modeling and simulation of physical systems using analog and digital techniques.

577. Process Control Systems. 3 hrs. Prerequisite: CSS 571. Use of the analog computer to solve engineering problems; process control systems.

580. Data Base Management Systems. 5 hrs. Prerequisite: CSS 342 or equivalent. Organization and maintenance of sequential, direct access, and index sequential files. Design of on-line file systems.

600. Selection and Management of Computer Systems. 3 hrs. Prerequisite: Graduate standing. Evaluation and selection of computer equipment; operation and management of a computer center.

620. Mathematical Programming I. 3 hrs. Prerequisite: CSS 320 or equivalent. Linear, non-linear, integer and dynamic programming. Use of PERT-CPM in project scheduling.

621. Mathematical Programming II. 3 hrs. Prerequisite: CSS 620. A continuation of CSS 620.

630. Communications Engineering Fundamentals. 3 hrs. Prerequisite: Permission of instructor. Basic concepts of components and systems which provide electrical communications.

631. Analog and Digital Communications. 3 hrs. Prerequisite: CSS 630. Principles and techniques of analog and digital communications. Fourier analysis of various modulation and multiplexing methods.

632. Communication Systems Analysis. 3 hrs. Prerequisite: CSS 631. Principles and techniques for analyzing the technical performance of voice and data communication systems.

633. The Computer and Communications. 3 hrs. Prerequisite: CSS 632. The operation of and uses for digital computers in a communications context.

635. Statistical Simulation and Modeling. 3 hrs. Prerequisite: CSS 340. Formulation of models and the design of simulation programs. Simulation languages such as GPSS, GPDS, and NDTRAN.

636. Stochastic Processes and Queuing Theory. 3 hrs. Prerequisite: MAT 385. Poisson process, Markov processes and Queuing theory.

637. Least Squares Techniques. 3 hrs. Regression analysis, curvilinear regression, discriminant and factor analysis.

641. Advanced Systems Programming I. 3 hrs. Reentrant, shared processor design. Study of addressing architecture and virtual memory management.

642. Advanced Systems Programming II. 3 hrs. Prerequisite: CSS 641. Advanced language design; implementation of compilers and interpreters.

650. Timesharing Systems. 3 hrs. Design of telecommunications systems: modems, concentrators, front-end processors, networks, design aid programs.

660. Information Structures. 3 hrs. A study of stacks, queues, arrays, trees, hash coding, searching and sorting.

662. Advanced Operating Systems. 3 hrs. Prerequisite: CSS 562. Interrupt handlers, I/O programming techniques, error recovery, diagnostic features.

670. Computer Graphics. 3 hrs. Prerequisite: CSS 541. Design, construction, and utilization of graphics. Application of graphics to selected business and scientific problems.

672. Digital Systems III. 3 hrs. Prerequisite: CSS 571. Fault detection in digital systems and fault tolerant computing.

678. Computer Control Systems. 3 hrs. Prerequisite: CSS 341. Topics in modeling, optimization, and control theory in controlling on-line systems.

680. System Analysis and Design. 3 hrs. Application of SCEPTRE, LISA, CSMP, SL-I packages to problems in electrical, mechanical and civil engineering.

681. Information Systems. 3 hrs. Use of state-of-the-art software packages (EDMS, CICS, etc.) in designing management information systems.

690. Problems in Computer Science I. 3 hrs. Special state-of-the-art topics in computing such as artificial intelligence, finite automata, etc.

691. Problems in Computer Science II. 3 hrs. The relationships of languages, automata and turing machines.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on

a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

CONSTRUCTION CURRICULUM (BCT-393)

558. **Construction Planning and Scheduling.** 3 hrs. Prerequisite: BCT 355. Critical Path Method (CPM) as a project planning, scheduling, and monitoring technique.

576. **Construction Labor.** 3 hrs. Prerequisite: BCT 374. A study of construction labor resources, labor history, and governmental labor regulations.

577. **Construction Project Management.** 3 hrs. Prerequisites: BCT 374, BCT 458, BCT 476. Field quality control and work methods analysis techniques.

592. **Special Problems.** 1-3 hrs. Prerequisites: Senior standing and approval of faculty adviser.

COUNSELING PSYCHOLOGY AND COUNSELOR EDUCATION (CPY-140)

523. **Group Procedures.** 3 hrs. The study of behavior in group settings with particular attention given to applications in mental health agencies and institutions.

532. **Introduction to Community Resources.** 3 hrs. An orientation to the community structures within which various service agencies operate. Processes through which client services are organized provide a basis for survey of community helping resources.

533. **Workshop in Counseling Procedures.** 3 hrs. Topics of special interest to the field of counseling psychology are introduced including: behavioral orientations to counseling and therapy, brief therapy models and topics in marriage and family counseling/therapy.

540. **Psychological Approaches for Classroom Behavior Management.** 1 hr.

597. **Interdisciplinary Seminar in Developmental Disabilities.** 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

610. **Foundations, Organization, and Administration of Guidance.** 3 hrs. An introduction to counseling and guidance services at the elementary/secondary school levels. Attention is given to both the range of services typically offered and to principles for organizing and administering a program of guidance services.

611. **Career Development and Information Services.** 3 hrs. The introduction to theories of career development and an analysis of the world of work. Processes are identified through which occupational/educational and personal/social information may be integrated for career/life planning.

612. **Counseling Theory and Practice.** 3 hrs. A course which provides an overview of major theoretical models for counseling. Attention is given to philosophical assumptions, key theoretical concepts, and major techniques of each.

614. **Testing and Individual Analysis.** 3 hrs. Prerequisite: REF 602 or equivalent. The fundamental principles of psychological assessment including concepts necessary for the administration, scoring, interpretation and use of test results. Attention is also given to ethics and issues involved in the appropriate use of psychological test results.

640. **Student Personnel Work in Higher Education.** 3 hrs. An introduction to student personnel services in higher education.

662. Counseling Lab Practicum I. 3 hrs. Prerequisites: CPY 612, 614, and prior arrangement with instructor. Beginning clinical practicum in counseling and psychological services. Students are expected to acquire basic competencies in counseling, testing and implementation of a systematic plan for behavior change.

691. Research. 1-9 hrs.

692. Special Problems I, II, III. 1-3 hrs. By prior arrangement only.

694. Field Problems I, II, III. 1-3 hrs. By prior arrangement only.

696. Field Internship. 3-6 hrs. Prerequisites: CPY 760 and prior arrangement with instructor. Affords opportunity for supervised practice in field setting.

697. Independent Study and Research. 3 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

710. Group Counseling. 3 hrs. Introduction to theory and practice of group counseling. Includes participation in experiential quasi-group. Major theoretical models for group work are surveyed.

711. Theory and Practice of Consultation. 3 hrs. Introduction to the theory and process of consultation. Emphasis is placed on student acquisition of basic consulting skills/competencies.

712. Assessment and Diagnosis. 3 hrs. An advanced course in psychological assessment and diagnosis. Attention is given to the selection and use of instruments commonly employed by counseling psychologists in clinical settings, and to diagnostic criteria of the DSM-III.

713. Readings. 3 hrs. Students are provided an opportunity to engage in advanced study of social learning theory models appropriate to Counseling Psychology through directed readings and integrative seminars.

714. The Psychology of Vocational Development. 3 hrs. An advanced study of vocational development as a life process. Concepts from the psychology of vocational development are examined as a basis for implementing the scientist-practitioner model in career counseling.

730. Introduction to Community and Counseling Psychology. 3 hrs. A survey course with particular emphasis on the role and identity of the psychological counselor in community agency and institutional settings.

732. Marriage and Family Counseling. 3 hrs. A survey of marital and family therapy models. Particular attention is given to the application of systems models.

735. Medical Aspects of Rehabilitation. 3 hrs. Designed to acquaint students with concepts in behavioral medicine and to relate psychological methods to health enhancement and to the treatment and rehabilitation of patients with chronic physical illness.

738. Alcoholism and Drug Abuse Seminar. 3 hrs. Advanced seminar in alcohol and drug abuse. Approximately one-half of the course is devoted to basic concepts, with the remainder devoted to selection and implementation of intervention strategies.

740. Problems Seminar. 3 hrs. An advanced seminar which is organized around problems and issues of college and university student personnel work.

762. Counseling Laboratory Practicum. 3 hrs. Prerequisite: CPY 662 and prior arrangement with instructor. An intermediate-level clinical practicum in counseling and psychological services. Students are expected to acquire advanced competencies in counseling and case management and to demonstrate an integration of theory with practice.

763. Group Counseling Laboratory. 3 hrs. Prerequisites: CPY 523 or 710 and permission of instructor. A practicum in which students facilitate and/or co-facilitate groups under supervision. Weekly staffings are scheduled with the supervisor to provide feedback and to allow discussion of problems and issues.

791. Research. 1-9 hrs. A course in which students are introduced to basic research methodology. Students are expected to develop competencies appropriate to roles as both designers and consumers of psychological research and outcome evaluation studies.

792. Special Problems. 1-4 hrs.

794. Field Problems. 3 hrs.

796. Advanced Practicum. 3 hrs. An advanced field practicum in which students develop applied competencies appropriate to their area of specialization under the supervisor.

797. Independent Study and Research. 1-6 hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 3 hrs.

810. Doctoral Integrative Seminar. 1 hr. A weekly seminar designed to integrate instructional experiences of doctoral students during their first year of residency.

811. Seminar in Systems of Counseling. 3 hrs. Prerequisites: CPY 612 and permission of instructor. A study of systems of counseling and psychotherapy with an emphasis on identifying central constructs and the development of synthesis. Students are expected to evaluate various systems in terms of their own developing theoretical positions.

836. Seminar in Counseling Psychology. 3 hrs. A professional issues seminar offered to advanced students during their first term of enrollment in the doctoral program. Topics include: historical antecedents, specialty definitions, ethics and standards for training and credentialing in psychology.

850. Advanced Research Seminar. 3 hrs. An advanced seminar which focuses on the identification of variables which are relevant to the understanding of psychotherapeutic change. Through a systematic review of process and outcome studies, students are assisted in conceptualizing and outlining their own program of doctoral research.

860. Counseling Laboratory III. 1-3 hrs. Prerequisites: CPY 762 and prior arrangement with instructor. An advanced practicum in counseling and psychological services which is integrated with CPY 811, Seminar in Systems of Counseling. Students work under supervision with a caseload which assists them to relate relevant theoretical concepts to therapeutic problems posed by their clients.

861. Internship I, II, III. 3-9 hrs. By prior arrangement only. Doctoral internship in Counseling Psychology which is begun subsequent to completion of coursework and all doctoral examinations. Students enroll in three semester hours per term during the year (three terms) of fulltime internship.

870. Practicum in Supervision. 3 hrs. An advanced seminar in the supervision of others who deliver counseling psychological services. Students provide approximately fifteen hours per week of direct supervision to master's students and participate in weekly staffing sessions with their own faculty supervisor.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

CRIMINAL JUSTICE (CJ-281)

525. Theories of Criminal Justice. 3 hrs. Theories of criminal justice are traced from Aristotle's initial efforts to current Anglo-American applications.

526. Comparative Criminal Justice Systems. 3 hrs. A study of foreign criminal justice systems with emphasis on how they suggest possible reforms for the American system.

530. Criminal Procedure. 3 hrs. A survey of procedural criminal law. Due process, statute of limitation, venue, and double jeopardy are covered.

533. Evidence, Search, and Seizure. 3 hrs. An examination of laws of evidence and the procedures for obtaining it with special emphasis on application in criminal court.

550. Administration of Criminal Corrections. 3 hrs. An in-depth study of administration of the correctional systems. To include: management, the incarceration process, probation, and parole.

551. Probation, Parole, and Community Corrections. 3 hrs. Course examines probation and parole systems, other alternatives to incarceration, and rehabilitative features available for offenders.

552. Group Techniques in Corrections. 3 hrs. An in-depth examination of the application of group work to criminal offenders in terms of theory and practice.

560. Juvenile Justice System. 3 hrs. A study of police in delinquency prevention, investigation of juvenile crime, disposition of offenders, and juvenile courts.

561. Juvenile Corrections. 3 hrs. Course provides the student interested in juvenile corrections with an in-depth perspective of the numerous treatment modalities currently in use.

562. Comparative Juvenile Justice. 3 hrs.

563. Family Law. 3 hrs. An indepth study of common law and statutory law relating to the family emphasizing legal remedies to violence and its effects on the criminal justice system.

570. Political Economy of Criminal Justice. 3 hrs.

571. Victims of Crime. 3 hrs. Provides an in-depth study of factors that affect the victims of crime. Specific crimes are studied and remedies explored.

580. Seminar in Criminal Justice. 3 hrs. A seminar course dealing with all aspects of the criminal justice system, tying together the knowledge of criminal justice previously learned.

625. Seminar in Criminal Justice Planning and Research. 3 hrs. Prerequisites: A basic statistics course or its equivalent and consent of instructor. A study of criminal justice planning methodology and research requirements.

626. Seminar in Advanced Topics in Comparative Criminal Justice. 3 hrs. Prerequisite: CJ 426/526 or approval of professor. Study abroad of selected topics of foreign criminal justice systems.

630. Seminar in Civil Liberties and Criminal Law. 3 hrs. A study of the legal and moral responsibility of the criminal justice system to individual rights.

631. Seminar in Anglo-American Criminal Law and Procedure. 3 hrs. A detailed study of topics in English criminal law and procedure oriented toward understanding the basis of American criminal justice and solutions to common problems.

632. Civil Law and Criminal Justice. 3 hrs. Examination of the relationship between selected areas of civil law and criminal justice agencies.

633. Seminar in Evidence. 3 hrs. An in-depth study of the laws of evidence with emphasis on application in criminal court.

640. Seminar in Legal Issues in Police Administration. 3 hrs. A study of legal issues involved in the administration of a modern police agency.

650. Seminar in Comparative Methods of Treatment in Corrections. 3 hrs. An analysis of comparative treatment methodologies utilized by correctional programs throughout the United States and in Europe.

660. Seminar in Juvenile Law. 3 hrs. Prerequisite: CJ 460/560 or approval of professor. An in-depth study of specific problems in the law pertaining to battered, neglected and delinquent children.

692. Special Problems. 1-3 hrs.

697. Independent Study and Research. Hrs. arr. No credit toward a degree. Students not in residence but who are actively working on a thesis and consulting with a major professor or using the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

CURRICULUM AND INSTRUCTION: ELEMENTARY (CIE-115)

503. Kindergarten-Primary Education. 3 hrs. A practicum designed to give teaching experiences in understanding the social, emotional, and cognitive growth and development of children.

512. Diagnosis and Remediation of Reading Disability for the Classroom Teacher. 3 hrs. Prerequisites: CIE 306, 309, and 311 or 312. Provides relevant practicum experiences in evaluation and gives extended opportunities in child tutoring appropriate to grades 2-8.

522. Curriculum Development for Career Education. 3 hrs. Introduction to principles of curriculum adaptation for school-based programs of career education.

540. Supervision for Effective Student Teaching. 1 hr. Introduction to the University of Southern Mississippi's student teaching program and the roles and responsibilities of associated personnel.

541. Teaching Math Concepts with Measurement Type Materials. 1 hr. Methods for developing concepts and notations of addition and subtraction as well as fractional parts through the use of measurement based models.

542. Computational Errors in Elementary Mathematics. 1 hr. The identification and remediation of pupil errors in addition, subtraction, multiplication, and division of whole numbers.

590. Workshop in Aviation Education. 3 hrs. Designed to familiarize teachers and administrators with the role that aviation and space exploration play in developing the school curriculum. May be taken twice for a total of six hours.

591. The Reading Conference. 1 hr. An intensive three-day summer quarter program consisting of lectures, group discussion and demonstration lessons. May be taken three times.

594. Workshop in Learning Resources in Early Childhood Education. 3 hrs. Students will become acquainted with learning sources, selection, use and production of multimedia materials for kindergarten and primary education.

600. Curriculum Development and Teaching Approaches in Multicultural Education. 3 hrs. Provides an introduction to multicultural education with emphasis on curriculum development and teaching techniques.

606. Teaching Language Arts in the Elementary Grades. 3 hrs. The basic concepts of language teaching and learning with consideration of all the language arts and their interrelationships.

622. Supervision and Curriculum in Reading. 3 hrs. The role of reading supervisors and school administrators in developing and implementing programs for improvement of reading instruction in the schools.

691. Research in Reading. 1-9 hrs. Designed to provide a student with the opportunity to pursue an individual research project or to make an intensive review of reading research on a selected topic.

692. Special Problems I, II, III. 1 hr. A problem study to be approved by the department chairman to develop knowledge and facility in a field of interest of the student. Preparation of a scholarly paper is required.

694. Field Problems in Production I, II. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 3 hrs. Credit deferred until thesis is completed.

704. Reading for Different Cultural Groups. 3 hrs. Reviews the research relating to the culturally different, specifically relating to characteristic differences and effective teaching materials and methodologies.

705. Modern Concepts in Reading Skill Development. 3 hrs. An intensive development of the skills required in classroom reading emphasizing methods and materials required to teach the skills.

706. Psychology of Reading. 3 hrs. Considers the components of the reading process, with emphasis on language and reading; approached from a theoretical point of view.

713. Advanced Diagnosis and Remediation of Reading Disability for the Classroom Teacher. 3 hrs. Prerequisite: CIF 706. Deals with corrective and remedial reading in the elementary school covering causes of disability, procedures in diagnosis, and classroom remedial treatment.

715. Advanced Diagnosis and Remediation of Reading Disability for the Reading Specialist. 3 hrs. Prerequisite: CIE 706. Deals with the role of the reading specialist, reading clinic organization, diagnostic remedial materials and techniques, with limited testing-teaching and clinical observation experiences.

717. Professional Relationship in Improved Elementary Programs. 3 hrs. A course designed to investigate behavioral factors and individuals and groups as they affect elementary school environments.

720. Internship in Reading: Public School. 3-6 hrs. The student is assigned to a public school in a teaching or supervisory capacity under the direct supervision of a reading faculty member in order to develop competency in instruction, administration or clinical skills.

721. Practicum in Remedial Reading for the Reading Specialist. 3 hrs. Prerequisite: CIE 715. Provides supervisory experiences in diagnosis in prescribing materials for remediation and in directing remedial reading procedures for small groups of reading disability cases.

724. Problems of Teaching Arithmetic. 3 hrs. Prerequisite: MAT 310 or consent of instructor. A study of elementary school techniques, particularly those related to a number concept, of teaching arithmetic based on research studies and current practices.

725. Social Studies Education in Elementary School. 3 hrs. A course which deals with programs, practices, trends, and investigation of criteria for evaluating, planning, organizing, and improving social studies programs.

726. The Development of the Latin Countries. 3 hrs. A seminar which deals with the historical, political, social, and economic development of the Latin American region.

727. Diagnostic Techniques in Elementary Mathematics. 3 hrs.

728. Curriculum Problems in the Elementary School. 3 hrs. A course involving analysis and evaluation of curriculum elements and procedures in terms of the implications for the individual, the school, and the community.

729. Reading in the Elementary School. 3 hrs. Provides for extensive study of recent trends in materials and methods in reading in the elementary school including significant related research studies.

730. Practicum in Elementary Mathematics. 3 hours. Prerequisites: CIE 724 and 727, or permission of the instructor. Provides experience in the diagnosis and developmental instruction of elementary pupils and explores related materials.

733. Practicum in Diagnosis and Remediation of Reading Disability for the Classroom Teacher. 3 hrs. Prerequisite: CIE 713. Develops the skills necessary in making a complete reading diagnosis including evaluations, interpretations, and recommendations.

736. Practicum in Reading Diagnosis. 3 hrs. Prerequisite: CIE 713. Enables the student to work with small groups of corrective reading cases diagnosing needs and teaching corrective lessons.

762. Research in Elementary Education. 3 hrs. Prerequisite: Advanced graduate status or permission of chairman of department. Designed to familiarize the student with the elements and methods of research, with the representative types of research, and with the major contributions of research to the field of elementary education.

768. Children's Literature in the Curriculum for the Early Years: An Awareness, Criteria, and Evaluation. 3 hrs.

770. Practicum in Early Childhood Education. 3 hrs. Curriculum planning, administration, and supervision are stressed through research and practice in laboratory settings.

772. Practicum with Parents. 3 hrs. Parent-teacher-child intrapersonal and interpersonal relationships are investigated through research and practice in laboratory settings.

776. Seminar in Early Childhood Education. 3 hrs. Emphasis is on early childhood practice, theory, and research and their relatedness to psychological, sociological, and intellectual patterns.

777. Evaluation in Early Childhood Education. 3 hrs. An introduction to specific principles and practices relative to group and individual evaluation procedures for early childhood education.

778. Creative and Mental Growth. 3 hrs. Research in creative thinking and its relationship to mental growth is emphasized.

780. Research in Child Development. 3 hrs. A course concerning methods and research in child growth in social, emotional, psychological, and physiological development.

782. History and Philosophy of Early Childhood Education. 3 hrs. An investigation of Pestalozzi, Froebel, Montessori, and others representing philosophies influencing today's curricula and programs.

785. Seminar in Reading Instruction. 3 hrs. Prerequisites: CIE 705, CIE 706, CIE 729. Considers topics pertinent to current research in reading instructions. Topics announced in advance of registration.

791. Research in Elementary Education. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 3 hrs. Specialist's degree candidates are required to select a significant educational problem for investigation and to present the findings in a scholarly report under the guidance of a graduate committee.

862. Seminar in Elementary Education 3 hrs. Prerequisite: Advanced graduate status or permission of the chairman of the department. A course which is interdisciplinary in nature and focuses upon contributions of research, philosophy, history, sociology, and educational psychology as it applies to the resolution of major issues in elementary education.

880. Advanced Graduate Seminar in Education. 1 hr. A series of in-depth discussions and analyses of significant educational problems and issues for students in advanced programs.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

CURRICULUM AND INSTRUCTION: SECONDARY (CIS 120)

522. Curriculum Development for Career Education. 3 hrs. Introduction to principles of curriculum adaptation for school-based programs of career education.

540. Supervision for Effective Student Teaching. 1 hr. Introduction to the University of Southern Mississippi's student teaching program and the roles and responsibilities of associated personnel.

570. Curriculum of the Secondary School. 2 hrs. A course which examines the present-day structure and nature of the secondary school curriculum.

572. Student Activities in Secondary Schools. 1 hr. Consideration is given to the general nature, activities, and organization of the student extracurricular program.

692. Special Problems I, II, III. 1 hr. A problem study to be approved by the department chairman to develop knowledge and facility in the field of interest of the student. Preparation of a scholarly paper is required.

694. Field Problems. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 3 hrs. Credit deferred until thesis is completed.

700. Seminar in Secondary Education. 3 hrs. An investigation of the major trends and objectives of the secondary school with emphasis upon the disciplinary areas of the curriculum.

701. Algebra for Secondary Teachers. 3 hrs. Consideration is given to the problems relating to the teaching of algebra and a new review of special algebraic principles.

705. Professional Subject Matter in Mathematics. 3 hrs. A study of ways to enrich the teaching of high school mathematics through the introduction of basic topics and concepts of college mathematics.

706. Geometry for Secondary Teachers. 3 hrs. Consideration is given to the problems pertaining to the teaching of high school geometry and a review of special geometric principles.

707. Materials in the Teaching of Mathematics. 3 hrs. A study of materials to be used in the teaching of secondary school mathematics both in the classroom and in extraclass activities.

708. High School Curriculum. 3 hrs. An overview of the field of curriculum and instruction at the secondary-school level with special emphasis upon contemporary trends.

710. Mathematics for Junior High School Teachers. 3 hrs. Prerequisite: To be teaching junior high school mathematics or have at least a minor in college mathematics. Consideration is given to the problems relative to the teaching of mathematics in grades 7, 8 and 9 and to the organization of mathematical subject matter for these grades.

723. Research and Problems in Mathematics Education. 3 hrs. A seminar for experienced teachers who wish to plan developmental programs of mathematics instruction in light of recent developments.

730. Reading and Study Improvement Techniques for the Junior and Senior College Teacher of Reading. 3 hrs. Summarizes research, methods, and techniques of college reading programs including a practicum or internship experience in REF 334.

737. Practicum in Remedial Reading Instruction. 3 hrs. Provides the student experiences in secondary reading diagnosis and remediation with emphasis on techniques in a practicum setting.

750. Advanced Study of Problems and Issues in Teaching Secondary School Social Studies. 3 hrs. Explores inquiry strategies for the social studies classroom

and seeks to foster a firm understanding of basic analytical concepts and principles for the experienced social studies teacher.

754. Reading in the Secondary Schools. 3 hrs. A course providing for extensive study of trends in materials and methods in secondary school reading including significant research studies which relate to these.

791. Research in Secondary Education. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs. Specialist degree candidates are required to select a significant educational problem for investigation and to present the findings in a scholarly paper under the guidance of a graduate committee.

880. Advanced Graduate Seminar in Education. 1 hr. A series of in-depth discussions and analyses of significant educational problems and issues for students in advanced programs.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

ECONOMICS (ECO-610)

501. Public Finance. 3 hrs. Prerequisites: ECO 225-256. A study of federal and state spending and fund raising policies within the context of the social goals to be accomplished by such policies.

502. Public Policy Analysis. 3 hrs. Prerequisites: ECO 255, 256, and 301. A study of the principles and tools of policy analysis in the public sector.

524. Economics of Urban Areas. 3 hrs. Prerequisites: ECO 255-256. A study of current problems of the cities—race, poverty, pollution, unemployment, crime, and government finance.

535. International Trade Theory. 3 hrs. Prerequisites: ECO 255-256. A study of the historical development of international trade theory, the importance of international trade, the mechanism of international payments, and modern theories dealing with the subject.

540. Economic Development. 3 hrs. Prerequisites: ECO 255-256. A study of the nature, causes, and effects of regional and national economic development.

570. Comparative Economic Systems. 3 hrs. Prerequisites: ECO 255-256. Origins, development and characteristics of facism, communism, and capitalism.

580. Environmental Economics. 3 hrs. Prerequisites: ECO 255-256 or consent of instructor. A survey of economic concepts relevant to decision making with reference to the management of natural resources heretofore considered to be “free” in nature.

583. Seminar in North Atlantic Economic Issues. 3-6 hrs. Prerequisites: ECO 255, 256, and consent of instructor. A series of lectures by selected European scholars and discussion of topics pertinent to economic problems facing the North Atlantic nations. Offered through the Institute for Anglo-American Studies.

604. Economic Analysis. 3 hrs. Prerequisite: Graduate standing. An introduction to economic analysis and current economic problems. (May be taken in lieu of Principles of Economics for those preparing for the MBA degree but may not be applied toward the 33 semester hour requirement).

606. Microeconomic Analysis for Business. 3 hrs. Prerequisites: ECO 255-256, or ECO 604. A study of pricing and resource allocation with emphasis on applying microeconomic concepts.

608. Macroeconomic Analysis for Business. 3 hrs. Prerequisite: ECO 330. Determinants of the national income, employment, and the general level of prices. Economic fluctuations and forecasting. Fiscal and monetary policy.

610. Monetary Theory. 3 hrs. Prerequisite: ECO 330. An advanced study of the determination of the level of prices and of alternate monetary and fiscal policies.

625. Managerial Economics. 3 hrs. An advanced study involving theory and actual cases in the application of economic analysis to the solutions of business problems.

630. History of Economic Thought. 3 hrs. An examination of the development of economic analysis from mercantilism through modern contributions.

670. Theory of Economic Systems. 3 hrs. Prerequisites: Principles of Economics and permission of the department chairman. A study of the theories underlying the different economic systems. This course may not be taken for credit by the student who has had comparative systems at the undergraduate level.

686. Special Problems in North Atlantic Economic Issues. 3 hrs. Prerequisite: Consent of instructor. Supervised research on a specific topic dealing with the economies of selected North Atlantic nations. Offered through the Institute for Anglo-American Studies.

692. Special Problems. 3 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but are actively working on a thesis and consulting with major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDA-130)

540. Community Education and the Professional Educator. 1 hr. Introduction to the concept of community education and its importance in building a base of community support for schools.

600. Basic Course in Educational Administration and Supervision. 3 hrs. The introductory course for teachers and prospective administrators provides an overview of administrative roles in education.

601. Introduction to Community Education. 3 hrs. Designed to acquaint students with the historical development of community education, and to review the basic components of the community school.

620. Supervision of Instruction. 3 hrs. A practical course in supervision for prospective school principals and supervisors of instruction. Deals with principles and procedures of supervision.

630. Organization and Administration of the Elementary School. 3 hrs. A study emphasizing administrative problems and professional leadership in the elementary school.

632. Organization and Administration of the Junior High and Middle Schools. 3 hrs. Examines the Junior High-Middle School function, objectives and program from the viewpoint of the administrator and supervisor.

634. Organization and Administration of the Secondary School. 3 hrs. The study of practical problems encountered by high-school principals in: scheduling, attendance, discipline, office management, and the selection and supervision of staff.

650. School Business Management. 3 hrs. A practical course in the overall aspects of present day school business administration.

691. Research. 1-9 hrs. arr.

692. Special Problems I, II, III. 1-3 hrs. A problem study to develop knowledge and facility in a field of interest for the student which requires preparation of a scholarly paper under the supervision of a graduate professor.

694. Field Problems in Production I and II. 3 hrs. Opportunity to study local school problems under careful supervision of a graduate professor.

697. Independent Study and Research. 1-9 hrs. No credit toward a degree. Students who are not in residence but are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

700. Public School Finance. 3 hrs. Emphasizes principles of taxation; local, state, and federal financing of public education; equalization of education opportunity.

704. School Community Relations. 3 hrs. A study of school community relations purposes, principles, policies, and procedures.

706. Education Facilities Development and Management. 3 hrs. A comprehensive study of the administrative function in facilities, renovation, planning, maintenance, and management.

708. Administration of School Personnel. 3 hrs. Stresses administrative relationships involved in developing satisfactory personnel policies, techniques, and regulations.

710. School Law. 3 hrs. Legal aspects of such factors as school money, church-state relationships, injury to pupils, student and teacher rights, and related matters.

711. Higher Education in the United States. 3 hrs. This course provides an overview of the development, scope, philosophy, objectives, and recent innovations in colleges and universities.

712. The Junior College. 3 hrs. This course treats the development, functions, programs, philosophy, issues, and research related to the junior college.

713. Curricula in Higher Education. 3 hrs. A study of undergraduate, graduate, and professional education curriculum development in junior and senior colleges.

715. Administration and Supervision of College Teaching. 3 hrs. A study of the administration of college faculty personnel services and of techniques for faculty development.

717. Continuing Education and Community Service. 3 hrs. The role and scope of continuing education and community service in higher education, including the community college.

719. Organization and Administration of Occupational Education in the Community College. 3 hrs. Economic, social, educational and legal bases for occupational education; administration of secondary and community college programs.

720. Advanced Curriculum Development. 3 hrs. Designed for the school administrator who has or will have responsibility for curriculum development in a school system.

736. Practicum in Educational Administration. 3 hrs. Seminar-experiences in administrative problems from the standpoint of the chief school officer and the central office staff.

738. Practicum in Supervision. 3 hrs. Prerequisite: EDA 620. An advanced seminar in supervisory services and current problems from a central office viewpoint.

750. Administrative Workshop I, II, III, and IV. One and one-half hours per week. (Course may be repeated, with only nine hours counting toward a degree.)

755. Problems of the County Superintendent. 3 hrs. A course designed for county superintendents in which they study their problems under the direction of a graduate professor.

791. Research in Educational Administration, Supervision, and Curriculum. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems in Administration I, II, III. 1 hr. A project dealing with a specific problem in school administration. An on-the-job training program with the work being done under the supervision of a graduate professor. This registration must be approved by the departmental chairman upon the recommendation of the student's major professor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students not in residence but actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs. Selection of practical educational problems for solution by candidates for the specialist's degree, using research and professional knowledge. A scholarly report is required.

800. Seminar: Theories in Educational Organization and Administration. 3 hrs. This course deals with the theories and concepts underlying present day school organization, administration, and supervision.

814. Organization and Administration of Higher Education. 3 hrs. A study of organizational and administrative roles of structure, governance, coordination, control and finance of higher education.

816. Seminar in Problems of Higher Education. 3 hrs. Discussion of problems and topics in higher education to be determined by the students and the instructor.

889. Special Topics Seminar. 1 hr. (Max. 3 hrs.) A seminar for inresidence doctoral students in educational administration, emphasizing current issues selected by students in consultation with faculty.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

EDUCATIONAL PSYCHOLOGY (EPY-180)

582. Moral Value Development in Childhood and Adolescence. 3 hrs. A study of the major theories of moral development and techniques for facilitating moral growth.

691. **Research in School Psychology.** 1-9 hrs.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted toward a degree. Students not in residence but actively working on a thesis and using University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

710. **Seminar in Teaching of Psychology.** 1 hr. An analysis of the psycho-educational problems involved in the undergraduate and graduate teaching of psychology.

712. **Practicum in Teaching Psychology.** 3-6 hrs. Supervised teaching of courses in psychology.

720. **Learning and Motivation I.** 3 hrs. Basic concepts, problems, and research methodology in the studying of learning and motivation.

721. **Learning and Motivation II.** 3 hrs. An intensive study of the role of contemporary theories of learning and motivation in current research.

722. **Brain Damage and Behavior.** 3 hrs. Prerequisite: Permission of instructor. Causes of brain injury are studied and their effect on the mental and physical behavior of man are considered.

731. **Community Mental Health.** 3 hrs. Prerequisite: Permission of instructor. Concepts and techniques of mental health consultation with emphasis on the psychologist's role in the field of mental health.

732. **Psychology of Mental Retardation.** 3 hrs. Prerequisite: Permission of instructor. Study of personality development, problems of adjustment, and abnormal behavior of the mentally retarded.

740. **Advanced Educational Psychology.** 3 hrs. Designed primarily for the graduate student wishing to broaden his knowledge in the field of psychology of learning.

742. **Learning and Instruction in Higher Education.** 3 hrs. A study of the application of learning principles and instructional techniques in higher education.

745. **Psychology of the Gifted Child.** 3 hrs. Prerequisite: Permission of instructor. Study of the characteristics and needs of gifted children and the various means employed by the schools to provide for these children.

746. **Social Processes in Classroom Learning.** 3 hrs. Pupil-teacher interaction; instruction in developing goals, changing attitudes, resolving conflicts, and enhancing the individual's sense of worth.

750. **Leadership.** 3 hrs. Prerequisite: Permission of the instructor. Study of the factors affecting leadership in a school or industrial setting.

760. **Intelligence: Theories and Development.** 3 hrs. Nature of intelligence, and its development; critical evaluation of methods of measurement; relation of intelligence to social efficiency.

762. **Interpretation of Psychological Tests for Exceptional Children.** 3 hrs. Prerequisite: Permission of instructor. A study of the various psychological tests used in the appraisal and evaluation of exceptional children.

772. **Case Studies in School Psychology Problems.** 3 hrs. Prerequisite: Permission of the instructor. Educational programming, classroom management, multicultural issues, and program evaluation for the school psychologist. To be taken concurrently with EPY 784.

774. **Advanced Child Psychology.** 3 hrs. Mental, motor, social, and emotional development of children of elementary school age.

775. **Advanced Adolescent Psychology.** 3 hrs. Advanced study of the adolescent and his needs in the home, school, and community.

783. **Seminar in Psychological Services in Schools I, II, III.** 1 hr. Prerequisite: Admission to graduate study in school psychology and/or permission of instructor. Professional issues and pre-practicum experiences in school psychology.

784. **Practicum in School Psychology.** 3 hrs. Prerequisite: Permission of instructor. May be repeated up to 9 semester hours. Supervised use of clinical procedures in a school setting.

791. **Research in School Psychology.** 1-9 hrs. Prerequisite: Approval of major professor.

792. **Special Problems.** 1-3 hrs.

796. **Internship in School Psychology.** 4 hrs. Prerequisite: Permission of instructor. May be repeated up to 12 semester hours. Full-time practice of school psychology under on-site supervision in an approved educational setting.

797. **Independent Study and Research.** 3 hrs. Not to be counted as credit toward a degree. Students not in residence but actively working on a dissertation and using University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

ELECTRONICS TECHNOLOGY (ELT-398)

511. **Electronics for Scientists.** 4 hrs. Practical electronics needed for maximum utilization of scientific instrumentation, automation, and logic circuits.

ENGLISH (ENG-224)

501. **Advanced Grammar.** 3 hrs. Introduces structural and transformational grammar. (Required for secondary or middle-grade certification in English.)

502. **English Syntax.** 3 hrs. Examines English syntax and conventional forms of English grammar.

503. **Introduction to Linguistics.** 3 hrs. Introduces the principles of descriptive linguistics.

506. **History of the English Language.** 3 hrs. Surveys the development of the English language from Old English to the present.

509. **Studies in Linguistics.** 3 hrs. Offers varied topics yearly. Repeatable to six hours.

510. **Readings in World Literature I.** 3 hrs. Examines various Greek, Roman, Medieval, and Renaissance writers.

511. **Readings in World Literature II.** 3 hrs. Examines various European Enlightenment, Romantic, and Modern writers.

513. **The Modern Novel.** 3 hrs. Examines major British and Continental novels of the last hundred years.

517. **Modern Drama.** 3 hrs. Studies important British and Continental dramas of the twentieth century.

519. **Studies in World Literature.** 3 hrs. Studies Continental, British, and American writers of the nineteenth and twentieth centuries. Repeatable to nine hours.

521. **Fiction Writing III.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Provides an opportunity to develop techniques of fiction writing. Repeatable to nine hours.

522. **Poetry Writing III.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Provides an opportunity to develop techniques of poetry writing. Repeatable to nine hours.

525. **Readings in the Theory of Fiction.** 3 hrs. Studies theories and forms of contemporary fiction. Repeatable to six hours.

526. **Readings in the Theory of Poetry.** 3 hrs. Studies theories and forms of contemporary poetry. Repeatable to six hours.

551. **Chaucer.** 3 hrs. Emphasizes a close reading of **The Canterbury Tales**.

554. **Shakespeare's Comedies and Tragicomedies.** 3 hrs. Studies a selected group of Shakespeare's dramas.

555. **Shakespeare's Histories and Tragedies.** 3 hrs. Studies a selected group of Shakespeare's dramas.

556. **Sixteenth-Century British Literature.** 3 hrs. Studies the more important British writers of this period.

557. **The Development of British Drama to 1642.** 3 hrs. Studies British drama from its beginnings to 1642, exclusive of Shakespeare.

558. **Seventeenth-Century British Prose and Poetry.** 3 hrs. Surveys British literature of the period 1600 to 1660, with emphasis on the "schools" of Donne and Jonson.

559. **Milton.** 3 hrs. Studies the poetry and prose of Milton with emphasis on the major works.

560. **British Literature, 1660-1740.** 3 hrs. Surveys British literature from the Restoration to 1740.

562. **British Literature, 1740-1798.** 3 hrs. Surveys British literature from 1740 to 1798.

564. **The British Novel to 1900.** 3 hrs. Studies the development of British fiction from Richardson through Hardy.

565. **Nineteenth-Century British Literature: Romantic.** 3 hrs. Surveys poetry and prose of the period 1790 to 1830.

566. **Nineteenth-Century British Literature: Victorian.** 3 hrs. Surveys poetry and prose of the period 1830 to 1900.

567. **Twentieth Century British Literature.** 3 hrs. Studies major twentieth-century British writers, emphasizing novelists and dramatists.

568. **Modern British Poetry.** 3 hrs. Surveys major British poets from Hardy to the present.

569. **Studies in British Literature.** 3 hrs. Examines various topics in British literature. Repeatable to nine hours.

570. **The American Literary Renaissance, 1820-1870.** 3 hrs. Examines the writings of Emerson, Thoreau, Hawthorne, Melville, Whitman, and others.

571. **The Rise of Realism in American Literature, 1870-1920.** 3 hrs. Examines American literature after the Civil War, focusing on the terms **realism** and **naturalism**.

572. **American Drama.** 3 hrs. Studies American drama from its beginnings to the present, with emphasis on the twentieth century.

577. **The American Novel 1920 to 1960.** 3 hrs. Studies techniques and historical backgrounds of the major novelists.

578. **Modern American Poetry.** 3 hrs. Surveys major American poets from Whitman to the present.

585. **Literature of the South.** 3 hrs. Emphasizes the fiction, poetry, and drama of Southern writers.

589. **Studies in American Literature.** 3 hrs. Studies notable movements, genres, and problems of American literature. Repeatable to nine hours.

640. **Bibliography and Methods of Research in English.** 3 hrs. Instruction in the collection, evaluation, and presentation of research materials.

692. **Special Problems.** 3 hrs. Prerequisite: Consent of instructor. Provides the opportunity to pursue a special topic or area of interest.

695. **Advanced Methods in English.** 3 hrs. Analyzes recent theories and practices in the teaching of composition, literature, and language in postelementary institutions. Repeatable to nine hours.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. (Can be taken for a total of six hours.)

701. **Seminar in Analysis of Linguistic Structure.** 3 hrs. Examines varying topics but usually treats the theory of language learning and/or its relations to meaning. Repeatable to nine hours.

702. **Readings in Linguistics.** 3 hrs. Examines varying topics, but usually treats practical aspects of classroom problems arising from widely varying dialects in the public schools. Repeatable to nine hours.

703. **Seminar in Teaching English as a Second Language.** 3 hrs. Examines the practical application of linguistic principles to second language teaching.

704. **Internship at the English Language Institute.** 7 hrs. Provides participation in all aspects of the English Language Institute, including teaching and testing.

714. **Tutorial in English and Germanic Philology I.** 3 hrs. Develops specialized areas of inquiry unavailable in the regular curriculum.

715. **Tutorial in English and Germanic Philology II.** 3 hrs. Develops specialized areas of inquiry unavailable in the regular curriculum.

716. **Seminar in Modern World Literature.** 3 hrs. Examines varying topics in British and Continental literature of the twentieth century: authors, movements, and genres. Repeatable to nine hours.

721. **Seminar in Fiction Writing.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Workshop in fiction writing. Repeatable to nine hours.

722. **Seminar in Poetry Writing.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Workshop in poetry writing. Repeatable to nine hours.

744. **Seminar in Literary Criticism.** 3 hrs. Examines selected literary criticism from Aristotle to the modern period.

750. **Anglo-Saxon.** 3 hrs. Studies the Old English language and representative English literature prior to 1066.

751. **Beowulf.** 3 hrs. Reading *Beowulf* in Anglo-Saxon.

753. **Middle English.** 3 hrs. Presents readings in Middle English literature exclusive of Chaucer, emphasizing the language and dialects of English from 1100 to 1500.

754. **Seminar in Medieval Literature.** 3 hrs. Studies the works of a major English medieval writer or group of writers. Repeatable to nine hours.

758. **Seminar in Renaissance Literature.** 3 hrs. Studies the works of a major English Renaissance writer or group of writers. Repeatable to nine hours.

760. **Seminar in Seventeenth-Century British Literature.** 3 hrs. Provides extensive study of an author, topic, or genre in seventeenth-century British literature. Repeatable to nine hours.

761. **Seminar in Eighteenth-Century British Literature.** 3 hrs. Provides extensive study of an author, topic, or genre in eighteenth-century British literature. Repeatable to nine hours.

763. **Seminar in English Romanticism.** 3 hrs. Provides extensive study of selected poets and topics from the Romantic Era (1790-1830).

764. **Seminar in Victorianism.** 3 hrs. Provides extensive study of selected authors and topics from the Victorian Era (1830-1910).

769. **Seminar in Modern British Literature.** 3 hrs. Offers an examination of important modern British figures and movements. Repeatable to nine hours.

770. **Seminar in American Literature I.** 3 hrs. Presents a detailed study of selected American writers and movements before 1900. Repeatable to nine hours.

771. **Seminar in American Literature II.** 3 hrs. Presents a detailed study of selected American writers and movements since 1900. Repeatable to nine hours.

772. **Readings in American Literature.** 3 hrs. Presents a detailed study of selected American writers and movements. Repeatable to nine hours.

790. **English Colloquium.** 3 hrs. Introduces the theory and practice of teaching college writing, with emphasis on freshman composition. Repeatable to six hours.

791. **Research in English.** 1-9 hrs. Prerequisite: Approval of major professor.

792. **Special Problems.** 1-6 hrs. Prerequisite: Consent of instructor. Provides the opportunity to pursue a special topic or area of interest.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students not in residence but actively preparing a dissertation and consulting with the major professor or using the library or other University research facilities must enroll in this course.

798. **Specialist Thesis.** 3 hrs.

898. **Dissertation.** 1-6 hrs. (Can be taken for a total of six hours.)

ENVIRONMENTAL TECHNOLOGY (ESC-335)

501. **Water Quality Analysis.** 3 hrs. Prerequisite: CHE 311, MAT 237 or permission of instructor. Sampling and testing for water quality.

501-L. **Water Quality Laboratory.** 1 hr.

502. **Air Quality Analysis.** 3 hrs. Prerequisite: ESC 401/501 or permission of instructor. Air pollution sampling, analysis, and modeling techniques.

502-L. **Air Quality Laboratory.** 1 hr.

503. **Water and Wastewater Treatment.** 3 hrs. Prerequisite: ESC 401/501, MIC 101 or permission of instructor. Methods for control of water pollution. Management of solid waste.

503-L. **Water and Wastewater Treatment Laboratory.** 1 hr.

505. **Environmental Impact Statements.** 3 hrs. Preparation of environmental impact statements, EIS's, for projects with significant environmental impact.

510. **Storm Water Modeling.** 3 hrs.

531. **Principles of Industrial Hygiene.** 3 hrs. Detection and control of harmful agents in working environments, such as vapors, gases, mists, radiation, and sound.

531-L. **Industrial Hygiene Laboratory.** 1 hr.

592. **Special Problems.** 1 hr.

789. **Seminar in Environmental Science I, II, III.** 1 hr.

FINANCE (FIN-615)

625. **Managerial Finance.** 3 hrs. A study of selected problems in business finance, banking, and investments. Outside research, along with the application of financial tools to managerial problems, is required.

630. **Problems in Finance.** 3 hrs. Application of tested and experimental financial theory by financial managers to decision-making problems relating to working capital and fixed capital management.

640. **Managing Financial Institutions.** 3 hrs. Gives the student an understanding of all the major financial institutions, their organizational structures, functions, and methods of operation.

652. **Problems in Investment.** 3 hrs. Application of tested and experimental theories by investment managers to problems of short and long-term decision making.

692. **Special Problems.** 3 hrs. A supervised course in individual study and research.

697. **Independent Study and Research.** 1-6 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

FOOD AND NUTRITION (FN-815)

530. **Experimental Foods.** 3 hrs.

560. **Advanced Nutrition.** 3 hrs.

561. **Diet in Disease.** 3 hrs.

562. **Food Preservation.** 3 hrs.

662. **Community Health and Nutrition.** 3 hrs.

663. **The Nutrition of Children.** 3 hrs.

664. **Seminar in Food and Nutrition.** 3 hrs. May be repeated for a total of 6 hours.

667. **Nutrition for Teachers.** 3 hrs.

691. **Research in Food and Nutrition.** 1-4 hrs.

692. **Special Problems in Nutrition.** 1-4 hrs.

FOOD SCIENCE TECHNOLOGY (FST-396)*

505. **Food Process Engineering.** 3 hrs. Application of engineering principles in food processing.

510. **Food and Drug Laws-Standards and Regulations.** 3 hrs. An examination of food laws and food quality attributes.

550. **Food Analysis I.** 2 hrs. Principles of chemical, microbiological, and physical methods used in food analysis, and application of these methods to examination of raw and processed foods.

550-L. **Food Analysis I Laboratory.** 2 hrs.

551. **Food Analysis II.** 2 hrs. Continuation of FST 550.

551-L. **Food Analysis II Laboratory.** 2 hrs.

610. **Food Enzymes.** 3 hrs. A review of enzymatic reactions and problems occurring in food during collection, manufacture, storage and distribution.

620. **Food Toxicology.** 2 hrs. Principles and processes of food spoilage and toxicology.

620-L. **Food Toxicology Laboratory.** 2 hrs.

630. **Synthetic Foods.** 2 hrs. Concepts of synthetic and unconventional foods and their manufacture.

630-L. **Synthetic Foods Laboratory.** 2 hrs.

687. **Seminar in Food Science.** 3 hrs. Selected topics in the chemistry, biochemistry, and microbiology of foods and food products.

688. **Seminar in Food Technology.** 3 hrs. Selected topics in the application of food science principles to the food industry.

691. **Research in Food Science.** 1-9 hrs.

692. **Special Problems in Food Science and Technology I, II, III, IV.** 2-8 hrs. A course in special techniques, designed for food science and technology majors.

697. **Independent Study and Research.** 1-9 hrs. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

*This program has been temporarily suspended.

FOREIGN LANGUAGES (FL-228)

500. **Introduction to Exotic Languages.** 3 hrs. May be taken for a total of six (6) hours.

501. **Advanced Credit for Study Abroad.** 3-9 hrs. Prerequisites: Advanced knowledge of the language to be studied; otherwise same as FL 301. (See FL 301 in undergraduate catalog.)

503. **Translation.** 3 hrs.

504. **Methods of Teaching Foreign Language.** 3 hrs. May be taken for a total of six (6) hours.

506. **Foreign Language Film.** 1-3 hrs. Study of literary and linguistic aspects of foreign films in a given foreign language.

511. **Modern France.** 3 hrs. Contemporary French education, social attitudes, politics, urban and rural life.

512. **Advanced French.** 3 hrs. Advanced study of French grammar and stylistics; composition; reading and stylistic analysis.

513. **Studies in French Literature.** 3 hrs. May be taken for a total of nine (9) hours if topics vary. Topics include nineteenth century drama and poetry, twentieth

century drama, nineteenth and twentieth century novel, and seventeenth century literature.

515. History of French Literature. 3 hrs. A historical survey focusing on poetics and literary criticism.

516. French Literature and Film. 3 hrs. Knowledge of French not required. All films have English subtitles. French majors must read the assigned literature in the French original. English translations are available to other majors. Studies certain key themes in film and literature; develops critical skills in analyzing film as a genre distinct but related to literature; examines cultural diversity; (for French majors) continues study of the French language.

521. Modern German. 3 hrs. A cultural survey of the German-speaking areas in postwar Europe.

522. Advanced German. 3 hrs. Advanced study of German grammar and stylistics; composition; reading and stylistic analysis.

523. Studies in German Literature. 3 hrs. May be taken for a total of nine (9) hours if topics vary. Topics include the age of Goethe, German realism and naturalism, twentieth-century literature.

525. History of German Literature. 3 hrs. A historical survey focusing on poetics and literary criticism.

531. Advanced Greek I. 3 hrs.

532. Advanced Greek II. 3 hrs.

535. Readings in Greek Literature. 3 hrs.

555. Readings in Latin Literature. 3 hrs. May be taken for a total of nine hours.

571. Modern Spain and Latin America. 3 hrs. A survey of the cultural background of Spain and Latin America.

572. Advanced Spanish. 3 hrs. Review of basic grammar, progressing to more sophisticated aspects; idiom study; composition.

573. Studies in Hispanic Literature. 3 hrs. May be taken for a total of nine (9) hours if topics vary. Topics include the Generation of '98, the realist novel, Golden Age drama, Cervantes, and survey of Latin American literature.

575. History of Hispanic Literature. 3 hrs. A historical survey focusing on poetics and literary criticism.

691. Research. 3 hrs.

692. Special Problems. 1-3 hrs. May be taken for a total of nine hours.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward as degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of six (6) hours.

711. Old French. 3 hrs. May be taken for a total of six (6) hours.

712. French Seminar. 3 hrs. May be taken for a total of nine (9) hours.

721. Middle High German. 3 hrs. May be taken for a total of six (6) hours.

722. German Seminar. 3 hrs. May be taken for a total of nine (9) hours.

771. Old Spanish. 3 hrs. May be taken for a total of six (6) hours.

772. Spanish Seminar. 3 hrs. May be taken for a total of nine (9) hours.

FORENSIC SCIENCE (FSC-375)

530. **Survey of Forensic Toxicology.** 3 hrs. Prerequisites: FSC 340, 341, or permission of instructor. Survey of forensic medicine and toxicology.

540. **Drug Identification.** 3 hrs. Lectures, demonstrations, and discussions covering all aspects of drug identification, particularly related to law enforcement.

542. **Arson and Explosives.** 3 hrs. Introduction to the investigation of arson and bombings.

542-L. **Arson and Explosives Laboratory.** 1 hr.

591. **Special Projects in Forensic Science.** 2 hrs. Individual studies in forensic science principles.

591-L. **Laboratory for Forensic Science** 591. 2 hrs. Hands-on experience with true forensic science situations.

691. **Research.** 1-9 hrs.

GENERAL BUSINESS ADMINISTRATION (GBA-616)

615. **Operations Research.** 3 hrs. An introductory course in the principles and techniques of operations research and management science.

625. **Statistical Analysis for Decision Making.** 3 hrs. Prerequisites: ECO 301 and 302 or equivalent. A study of classical statistical methods and Bayesian theory and their application for modern business problems.

670. **Business Policy and Administration.** 3 hrs. A study of policy making and administration from a top management point of view.

685. **Business Environment: Public Policy and Social Change.** 3 hrs. The relevant environmental pressures shaping the corporation are explored: government, labor, values and ethics, innovation and technology.

GENETICS (GEN-312)

502. **Genetics.** 3 hrs. Prerequisite: MIC 101 or BIO 101: one semester of organic chemistry recommended. The fundamental principles of heredity.

503. **Advanced Genetics.** 3 hrs. Prerequisite: GEN 402-502 or 451-551. A continuation of GEN 402-502.

504. **Genetic Techniques.** 2 hrs. Prerequisite: GEN 402-502 or concurrent with 402-502. Laboratory exercises to illustrate basic genetic principles.

511. **Physiological Genetics.** 3 hrs. Prerequisite: GEN 403-503 or permission of instructor. Physiological concepts of heredity.

521. **Interpretation of Biological Data.** 3 hrs. Prerequisite: Permission of instructor. Techniques of design and interpretation of biological research data.

551. **Medical Genetics.** 3 hrs. The basic principles of human genetics with emphasis on the causation of abnormality and disease.

561. **Microbial Genetics.** 2 hrs. Alternate years. Prerequisites: MIC 301 and GEN 403-503. The genetics and molecular biology of microorganisms and viruses.

561-L. **Microbial Genetics Laboratory.** 2 hrs. Prerequisite: Permission of instructor. Laboratory exercises to demonstrate principles of bacterial and viral genetics. Must be taken concurrently with GEN 461-561.

597. **Interdisciplinary Seminar in Developmental Disabilities.** 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

691. **Research in Genetics.** 1-9 hrs.

692. **Special Problems in Genetics I, II, III, IV.** 2 hrs. Individuals are assigned a problem in genetics to investigate under faculty direction.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

731. **Cytogenetics.** 4 hrs. Prerequisite: GEN 402-502 or 451-551. Basic principles and techniques in human cytogenetics.

741. **Somatic Cell Genetics.** 3 hrs. Prerequisite: Permission of instructor. Basic theory and techniques of cell culture and their genetic applications.

771. **Dynamics of Experimental Populations.** 3 hrs. Prerequisite: Permission of instructor. Concepts of changes in population structure leading to the formation of species.

789. **Genetics Seminar I, II, III.** 1 hr. The presentation and defense of current concepts and principles of genetics.

791. **Research in Genetics.** 1-9 hrs.

792. **Special Problems.** 3 hrs.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

GEOGRAPHY AND AREA DEVELOPMENT (GHY-268)

500. **Geography of Mississippi.** 3 hrs. Survey of physical, economic, and historical geography of state; emphasis on man-environment relations and problems.

502. **Geography of Various Regions.** 3 hrs. North America, Europe, Latin America, USSR, Africa, and other regions offered under this number. May be repeated for a total of nine hours.

510. **Advanced Cartography.** 3 hrs. Prerequisite: GHY 310. Map reproduction techniques, color prepreparation, scribing, and quantitative symbolization.

511. **Aerial Photograph Interpretation.** 3 hrs. Systematic treatment of elements and steps involved in interpreting, measuring, and mapping of images appearing on aerial photographs.

512. **Remote Sensing of the Environment.** 3 hrs. Prerequisite: GHY 411 or permission of instructor. Theory and application of remotely-sensed imageries generated from aircraft and spacecraft for geographic, environmental and planning purposes.

513. **Field Methods.** 3 hrs. Basic methods used to classify, analyze, and report field-gathered data in geography and planning.

515. **Quantitative Methods in Spatial Analysis.** 3 hrs. A basic course in statistical and other quantitative techniques applied to problems of spatial analysis.

516. **Computer Application in Geography.** 3 hrs. Prerequisite: FORTRAN course or permission of instructor. Application of computer mapping and geographic information systems as a tool of geographic analysis.

522. Geography and Soils. 3 hrs. Formation, distribution, and use of soils; emphasis on soils of south Mississippi; fieldwork and laboratory analysis.

525. Environmental Climatology. 3 hrs. Climatological aspects of atmospheric pollution; includes chemical, medical, legal, economic, and community-planning dimensions of air pollution.

527. Meteorology. 3 hrs. Study of temporal and areal variations in composition, structure, and workings of the atmosphere. Practice in use of instruments and measurements.

532. Perception of the Spatial Environment. 3 hrs. An analysis of man's perception of his cultural/social environment; considers both the physical and man-made landscape.

535. Historical Geography of the United States. 3 hrs. Evolution of cultural landscapes of the area now comprising the United States; emphasis on processes of change.

540. Population and Human Resources. 3 hrs. A geographical analysis of the biological and cultural characteristics of population.

550. Planning and Development. 3 hrs. Identification and analysis of funding programs supporting community and regional development. Exercises in grant writing and management.

551. Industrial Location Analysis. 3 hrs. Principles of industrial location analysis; emphasis on theory, locational decision making, and regional location of manufacturing.

552. Rural Land Use and Settlement. 3 hrs. Study of rural area development potentials and problems.

553. Transportation and Land Use. 3 hrs. Prerequisite: GHY 350 or permission of instructor. Various transportation modes and the effect they have on contemporary development problems.

561. Socioeconomic Planning. 3 hrs. Compilation, analysis, and projection of population and economic variables as they related to community and regional planning.

562. Environmental Planning. 3 hrs. A detailed study of environmental planning analysis and methodology as an element in land-use decision-making systems.

563. Transportation and Community Facilities Planning. 3 hrs. Examination of community facility and transportation planning and how they relate to the greater goals of the individual and society.

564. Housing and Community Development. 3 hrs. Examination and analysis of housing and land development patterns in community and regional planning.

565. Land Use Planning and Policy. 3 hrs. Consideration of various legal and institutional tools related to implementation of community and regional plans.

566. Planning Agency Management. 3 hrs. An analysis of the management and operation procedures of community and regional planning organizations.

569. Studio Laboratory: Plan Preparation. 3 hrs. Preparation and presentation of a professional plan as a collaborative student/community effort. May be repeated with change of content for a total of six (6) hours.

570. Energy Planning and Management. 3 hrs. An overview of the basic strategies and techniques employed through the public sector to foster energy efficiency.

573. Water Resources. 3 hrs. Study of hydrologic processes and their application to needs of cities, industry, agriculture, and recreation.

574. Watershed Management. 3 hrs. Investigation of watersheds as planning and management units; emphasis on relationship of water to other resources. Game theory used.

610. Seminar in Research Techniques and Presentation of Geographic Data. 3 hrs. Required of all geography graduate students.

612. Seminar in Geographic Techniques. 3 hrs. May be repeated up to six (6) hours with change in content to include cartographic, aerial photo interpretation, remote sensing, statistical, and field problems.

613. Advanced Techniques in Color Mapping and Reproduction. 3 hrs. Prerequisite: GHY 310. Study and application of advanced techniques used in preparation of multi-color maps for reproduction.

617. Geography for Teachers. 3 hrs. Current theories, practices, and techniques used in teaching geography at the elementary and secondary levels.

623. Seminar in Environmental Climatology. 3 hrs. May be repeated up to six (6) hours with change in content.

631. Seminar in Cultural-Historical Geography. 3 hrs.

650. Seminar in Economic Geography. 3 hrs. May be repeated up to six (6) hours with change in content.

653. The Dynamics of Areal Economic Development. 3 hrs. Theory and practice of spatial aspects of economic development as applied to local, regional, and national economies.

654. Planning and Organizing for Economic Development. 3 hrs. Deals with the application of concepts for effective planning and organizing for economic development; students involved in actual development situations.

656. Regional Resources and Development Potential. 3 hrs. An examination of the relationship between regional resources and economic development potentials.

657. Applied Industrial Development. 3 hrs. A systematic consideration of contemporary, real-world factors involved in the industrial location decision-making process; actual Mississippi case studies examined.

658. Seminar in the Problems of Economic Development. 3 hrs. Analysis of actual development problems; intended to provide opportunities for students to present for critique the results of their own research and field experience.

662. Seminar in Environmental Planning. 3 hrs. Prerequisite: GHY 462/562 or approval of instructor.

665. Seminar in Community and Regional Planning. 3 hrs.

666. Seminar in Community Planning and Development. 3 hrs. Deals with the ways in which decision makers interact on planning and development decisions.

673. Seminar in Water Resources. 3 hrs. May be repeated to six (6) hrs. with change in content.

680. Seminar in History and Development of Geographic Thought. 3 hrs.

691. Internship. 1-9 hrs. May be repeated for a total of nine

692. Special Problems. 1-6 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

GEOLOGY (GLY-340)

501. Principles of Stratigraphy. 3 hrs. Weekend field trip. Prerequisites: GLY 301, 341, or consent of instructor.

503. Optical Mineralogy and Petrography. 4 hrs. Prerequisites: GLY 301, MAT 103. Introduction to optical mineralogy and study of rocks using the petrographic microscope.

504. Coal Petrology. 3 hrs. Prerequisites: GLY 503 or permission of instructor. A study of origin, coalification, and maceral composition of coal and the application to problems of paleobotany, oil and gas prospecting, and fuel technology.

505. Sedimentology. 3 hrs. Prerequisites: GLY 103, 103-L; CHE 101. Origin of sediments, sedimentary structures, and classification of sedimentary rocks.

509. Carbonate Sediments. 3 hrs. Prerequisite: GLY 304. Comprehensive treatment of limestone sedimentology and petrology.

509-L. Carbonate Sediments Laboratory. 1 hr. Application of field and laboratory studies to an understanding of the genesis and diagenesis of ancient and modern carbonates.

510. Elements of Geochemistry. 3 hrs. Prerequisites: GLY 301 and CHE 102. Chemical processes operative in geology.

515. Clay Mineralogy. 3 hrs. Prerequisites: GLY 101 and CHE 102. Origin, structure, and chemistry of clays, identification techniques, clay-water systems, soil formation and engineering applications.

520. Elements of Geophysics. 3 hrs. Prerequisites: GLY 101, MAT 103, PHY 102, and consent of instructor. Application of physics to geological investigations.

522. Geophysical Well-Logging. 3 hrs. Application of well-logging techniques to petroleum exploration, groundwater investigations, and soil studies.

526. Advanced Geophysics. 3 hrs. Prerequisites: PHY 102, 106 or 202 and permission. Corequisite: Calculus. A development of the physical principles governing gravity, electricity, magnetism, and seismic wave propagation.

543. Micropaleontology. 3 hrs. Alternate years. Prerequisite: GLY 341. Taxonomy, morphology, and stratigraphic use of Foraminifera.

550. Geological Oceanography. 3 hrs. Prerequisites: GLY 103, CHE 102, and consent of instructor. Basic principles of geological oceanography.

551. Advanced Field Geology. 6 hrs.

552. Physical Marine Geology. 3 hrs. GCRL. Prerequisites: GLY 103, 301; CHE 102. Geological processes and environments of coastal zone.

554. Chemical Marine Geology. 3 hrs. GCRL. Prerequisites: GLY 103, 301; CHE 102. Chemistry of coastal waters and geochemistry of bottom sediment.

570. Petroleum Geology. 3 hrs. Alternate years. Prerequisites: GLY 308, 401, or permission of instructor. Origin, occurrence, migration, and accumulation of oil and gas.

574. Geological Excursion. 1-4 hrs. Field studies of geological phenomena in areas remote from the campus, by means of 8-10 day field trips.

576. Hydrology. 3 hrs. An introduction to the origin, distribution, movement, and properties of the waters of the earth.

600. Paleoclimatology. 3 hrs. Prerequisite: Permission of instructor. Past climatic conditions based on the rock, mineral, and biologic record.

601. Pleistocene Geology. 3 hrs. Prerequisite: Permission of instructor. Earth history of the Pleistocene epoch, with emphasis on glacial phenomena.

602. Hypotheses of Continental Drift. 3 hrs. Prerequisite: Permission of instructor. Study of evidence and hypotheses regarding crustal dislocations.

603. Sedimentary Environments. 3 hrs. Prerequisite: Permission of instructor. Comparison of modern environments of sedimentation with the evidence regarding paleoenvironments.

604. Tectonics. 3 hrs. Prerequisites: GLY 308 and permission of instructor. Investigation of large-scale crustal deformation.

605. Petrology of Igneous Rocks. 3 hrs. Alternate years. Prerequisites: GLY 403/503; 410/510 desirable. Origin, classification, composition, and geochemistry of igneous rocks.

606. Petrology of Metamorphic Rocks. 3 hrs. Alternate years. Prerequisites: GLY 403/503; 410/510 desirable. Origin, classification, composition, and geochemistry of metamorphic rocks.

607. Sedimentary Petrology. 3 hrs. Prerequisites: GLY 403/503, 405/505, and consent of instructor. Origin, classification, composition and geochemistry of sedimentary rocks.

607-L. Sedimentary Petrology Laboratory. 1 hr.

608. Gulf Coast Geology. 3 hrs. Prerequisites: GLY 308 and 401. Stratigraphy, structural geology, and mineral resources of the Gulf Coastal Province of the U.S.

630. Principles of Geology for High School Science Teachers. 3 hrs. Prerequisites: Bachelor's degree in science or its equivalent. Principles of physical and historical geology for teachers. Not applicable to geology degree.

641. Paleocology. 3 hrs. Prerequisites: GLY 341 or equivalent. A study of the relationship between ancient organisms and the environment in which they lived; field trips.

689. Seminar. 1 hr. May be repeated once for a total of two hours credit.

692. Special Problems in Geology I, II, III. 1-3 hrs. Investigation of a specific problem not related to thesis research.

697. Independent Study and Research. 1-3 hrs. Not to be counted as a credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

HEALTH AND SAFETY EDUCATION (HSE-715)

509. Community Health Education Methods. 3 hrs. Design and management, survey of planning strategies and educational methods.

510. School Health Education Methods. 3 hrs. Advanced theory of health education methods, survey of planning strategies for levels K-12.

511. Health Education Curriculum for Secondary Schools. 3 hrs. Coordination of curriculum development, content selection, and scope and sequence.

512. Measurement and Evaluation in Health Education. 3 hrs. Instruments and techniques for measuring and evaluating personal health.

514. Consumer Health. 3 hrs. The importance of consumer education as related to advertising theory and methods, health misconceptions, health services, medical quackery and health products.

515. School Health Program. 3 hrs. Organization and administration of school health programs.

516. Advanced Emergency Care. 3 hrs. Instructor certification in standard first aid and personal safety and cardiopulmonary resuscitation and a study of theory of educational methodology.

520. Communicable and Chronic Disease in Man. 3 hrs. Problems, control programs, and prevention of communicable and chronic disease.

521. Sanitation. 3 hrs. Problems of sanitation in the home, school, food industry, water supply systems, and waste disposal systems.

522. Drugs in Society. 3 hrs. Psycho-social, medical, legal, and health aspects of drugs and their abuse.

523. Curriculum Development in Alcohol Education. 3 hrs. Alcoholism, instructional approaches, and community resources for alcohol education.

530. Marriage and Human Sexuality. 3 hrs. Physical, emotional, and medical bases for successful courtship, marriage, and parenthood.

535. Mental Health Education. 3 hrs. A survey of the content and teaching strategies for mental health education.

536. Stress Management: Concepts and Strategies for Health Education. 3 hrs. Theory and application of primary prevention strategies in stress management programs.

540. Driver Education. 3 hrs. Survey of instruction, use of training cars, delegation of authority, legal responsibilities, and teacher qualifications.

541. Traffic Safety Education. 3 hrs. An in-depth study of driver, pedestrian, engineering, enforcement, and other traffic safety problems.

542. Laboratory Programs in Driver Education. 3 hrs. Examination of aims, objectives, and role of laboratory programs in driver education.

543. Methods of Driver and Traffic Safety Education. 3 hrs. Prerequisite: HSE 540. Organization and administration of driver education programs.

544. Simulation in Driver Education. 3 hrs. Prerequisites: HSE 540 and 543. Audiovisual instructional methods that are used to complement and supplement other instructional techniques utilized in driver education programs.

545. Driver Education Laboratory. 1 hr. This course is designed to provide students in HSE 443 with supervised teaching experience.

546. Innovative Programs in Driver Education. 3 hrs. New and unique teaching methods of driver and traffic safety education.

588. Motorcycle Safety Education. 3 hrs. Analysis of motorcycle traffic problems and methods of teaching classroom and laboratory phases of motorcycle education.

589. Driver Education for Special Students. 3 hrs. Curriculum development and teaching materials in traffic safety education.

611. Internship in Community Health Education. 9 hrs. Supervised professional experience in a selected community health setting.

622. Epidemiology. 3 hrs. A study of epidemiological concepts and methods related to incidence and prevalence of disease.

639. Energy Conservation Strategies for Motorists. 3 hrs. Workshop. Use of computerized equipment to study effects of various driving behaviors on fuel consumption.

640. Traffic Systems Management. 3 hrs. An overview of agencies and systems involved in the management of vehicular traffic.

641. K-6 Safety Education. 3 hrs. Development and implementation of comprehensive elementary safety program.

642. Alcohol and Traffic Safety. 3 hrs. Workshop. Content and methods for teaching about relationships of alcohol use to traffic safety.

643. Multiple Car Facilities. 3 hrs. Workshop. Methods for large group instruction in behind-the-wheel driving courses.

644. Pupil Transportation and Safety. 3 hrs. Workshop. Planning strategies for designing safe and economical transportation networks.

680. Research Techniques. 3 hrs. Problems, evaluation of problems and procedures, types and techniques of research.

685. Contemporary Issues in Health. 3 hrs. Health education needs and a study of contemporary health problems as they relate to content and methodology in health education.

692. Special Problems. 3 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

711. Advanced Personal and Community Hygiene. 3 hrs. Intensive study in personal and community hygiene.

715. School Health Program. 3 hrs. The development, organization, and administration of school health services.

720. Community Organization for Health Education. 3 hrs. Communities and community organizations as they relate to health services and health education.

730. Marriage and Parenthood Education. 3 hrs. Marriage and family life and social adjustment problems of high school and college students.

740. Facilities and Equipment in Driver Education Programs. 3 hrs. Planning for facilities and equipment for driver education programs.

741. Multi-Media Systems in Driver Education Programs. 3 hrs. Unique adaptation of newer media systems to the broad problems in driver and traffic safety.

742. Organization and Administration of Driver and Traffic Safety Education. 3 hrs. Organization and administration aspects of driver and traffic education as they relate to the total school.

743. Addictive Substances as Related to Traffic Safety Education. 3 hrs. A study of addictive substances and associated problems in traffic safety.

744. Psychological Factors in Driver and Traffic Safety Education. 3 hrs. A study of behavior with emphasis on attitudes, motivation, and adjustment and their relationship to safe driving.

745. Safety Education. 3 hrs. Methods and materials of safety education in public schools.

746. Administration and Supervision of Safety Programs. 3 hrs. Administration and supervision of governmental, industrial, agency, and community safety programs.

792. Special Problems in Health. 3 hrs.

HISTORY (HIS-272)

509. Themes in the Non-Western World. 3 hrs. An analysis of economic, political, social, and cultural issues which have shaped relations between the Western and non-Western worlds.

511. History of the USSR. 3 hrs.

512. English Constitutional History. 3 hrs. Emphasis on the main trends in the evolution of the modern common law system and the contemporary constitution.

513. Medieval Life and Thought. 3 hrs.

514. Modern Germany. 3 hrs. A survey of the political, diplomatic, economic, and social developments in Germany from the Bismarckian Era through the Third Reich.

515. French Revolution and Napoleon. 3 hrs. A study of Revolutionary and Napoleonic France and its impact on Europe.

516. Europe 1815-1870. 3 hrs. A survey of early nineteenth century Europe, with emphasis on nationalism and the quest for reform.

517. Europe 1870-1914. 3 hrs. A survey of late nineteenth and early twentieth century Europe with emphasis on the growth of democracy, the expansion of empires, and the origin of World War I.

518. Europe 1914-1945. 3 hrs.

520. France, 1815-Present. 3 hrs. A survey of French history after Napoleon emphasizing the evolution of political and social structures.

521. Tudor-Stuart Britain. 3 hrs.

524. Intellectual and Cultural History of Modern Europe. 3 hrs. Philosophy, social thought and the arts from the Enlightenment to the present.

525. Nineteenth and Twentieth Century Britain. 3 hrs.

540. Age of Jefferson and Jackson. 3 hrs. A study of political, social, and cultural changes in the United States from 1789-1848.

542. The Old South. 3 hrs. The social, economic, and cultural history of the antebellum South with particular emphasis on the plantation system and slavery.

543. The New South. 3 hrs. An analysis of the peculiarities of the South's social, economic, political, and intellectual development from 1877 to the present. Emphasis is placed on those factors making the South distinctive in American history.

545. U.S. Foreign Relations to 1914. 3 hrs. A study of U.S. foreign policy from the American Revolution to World War I with an emphasis on manifest destiny and American expansion.

546. U.S. Foreign Relations Since 1914. 3 hrs. A continuation of HIS 545 with an emphasis on the diplomacy of World War I, the events leading to World War II, World War II, and the Cold War.

547. Colonial America. 3 hrs. Development of social, political, economic, and religious life in the English colonies of North America to 1763.

548. The American Revolution. 3 hrs. A discussion course concerning the dispute between Great Britain and her American colonies which led to the development of a new nation.

550. Early American Frontier. 3 hrs. A discussion course concerning pioneer life—primarily in the South—from the Atlantic seaboard to the Mississippi Valley.

551. The Western Frontier. 3 hrs. Examines the significance of frontier types west of the Mississippi including explorers, mountain men, cowboys, farmers, miners, railroaders, and Indians.

552. The Sectional Controversy and the Civil War, 1848-1877. 3 hrs. An examination of sectional conflict, Civil War, and Reconstruction with primary emphasis on political and military history.

553. The Origins of Modern America, 1877-1919. 3 hrs. A survey of political, economic, diplomatic, and social developments in the United States from the close of the Civil War through the end of World War I.

554. Prosperity, Depression, and World War II, 1919-1945. 3 hrs. A detailed examination of the social, intellectual, political, and economic history of the inter-war years.

556. Law in American History. 3 hrs. Traces the relationship between law and society throughout American history.

558. Our Times. 3 hrs. A detailed examination of social, intellectual, political, diplomatic, and economic history since World War II.

575. A History of American Thought I. 3 hrs. A survey of American thought from the 17th through the 19th century.

576. A History of American Thought II. 3 hrs. A survey of 20th century American thought.

580. History of Mexico and the Caribbean. 3 hrs.

581. History of South America: The Andean Countries. 3 hrs.

582. History of South America: Brazil and the Rio de la Plata. 3 hrs.

692. Special Problems, I, II, III, IV. 1-4 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

710. Philosophy and Methods of History. 3 hrs. Acquaints graduate students with the nature and methods of historical study. Topics include research and bibliographic techniques; topic selection and question-framing; data collection, analysis, and interpretation, including quantification.

710. Philosophy and Methods of History. 3 hrs.

711. Medieval History. 3 hrs. May be repeated for a total of nine hours.

712. Seminar in European History, 1870 to the Present. 3 hrs. May be repeated for a total of nine hours.

716. **British History.** 3 hrs. May be repeated for a total of nine hours.

717, 718. **Readings in European History I, II.** 3 hrs. each. May be repeated for a total of nine hours.

719. **Advanced Seminar in European Studies.** 3-6 hrs. Lecture series and research in European studies offered abroad under auspices of Institute of Anglo-American Studies.

740. **American Historiography.** 3 hrs.

746, 747. **Readings in American History I, II.** 3 hrs. each. May be repeated for a total of nine hours.

748. **Readings in Mississippi History.** 3 hrs.

749. **Seminar in American History.** 3 hrs. May be repeated for a total of nine hours.

780. **Latin American History.** 3 hrs. May be repeated for a total of nine hours.

791. **Research in History.** 1-9 hrs. Prerequisite: Approval of major professor.

796. **Practicum in the Teaching of History in Colleges and Universities.** 3 hrs.

797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

HOME ECONOMICS EDUCATION (HEE-820)

504. **Consumer Economics.** 3 hrs. Consumer problems in present day society.

509. **Occupational Home Economics.** 3 hrs. The exploration and planning of teaching units for home economics related occupations.

601. **Home Economics in American Education.** 3 hrs. Trends and issues in curriculum development, instruction, supervision, administration, and research.

602. **Advanced Adult Education.** 3 hrs. Current techniques and procedures for teaching adult programs in home economics.

603. **Teaching Family Living on the Secondary Level.** 3 hrs.

605. **Supervision of Home Economics Education.** 3 hrs. Practices and procedures in the supervision of vocational home economics.

606. **Selected Topics in Home Economics Education.** 3 hrs. (May be repeated once.) Prerequisite: The corresponding subject matter course. The development and application of units of work in selected areas in the secondary school program.

607. **Curriculum Problems in Home Economics.** 3 hrs. A practicum for developing home economic curriculum materials for local schools.

608. **Home Economics in Higher Education.** 3 hrs. Administrative problems and evaluation of departments, at the college level.

610. **Seminar in Home Economics Education.** 1-6 hrs.

612. **Supervised Field Experience in Home Economics Related Occupations.** 6 hrs. This course meets part of the requirements for Occupational certification. (Not to be used toward fulfilling degree requirements.)

614. **Preparation of Teachers for Home Economics for Special Needs Programs.** 3 hrs. Designed to prepare Home Economics teachers to teach homemaking skills to the physically handicapped and elderly.

615. Planning and Development of Home Economics. 3 hrs. For teachers who need to up-date their teaching techniques.

691. Research. 1-4 hrs.

692. Special Problems in Home Economics Education. 1-4 hrs.

697. Independent Study and Research. 1-4 hrs. Not to be counted toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

798. Research Problem. 6 hrs. Selection of a practical educational problem using research and professional knowledge. A scholarly paper is required.

HOUSING AND HOME MANAGEMENT (HHM-825)

640. Home Engineering. 3 hrs. This course includes a study of the selection, placement, and storage of home appliances and their use as related to the mechanical features.

644. Seminar in Housing and Home Management. 3 hrs. May be repeated for a total of 6 hours.

692. Special Problems in Any of the Following Areas: 1-4 hrs.

- a. Household Equipment.
- b. Housing.
- c. Home Furnishings.
- d. Home Management.

INDUSTRIAL AND VOCATIONAL EDUCATION (IVE-165)

500. Shop Planning and Equipment Selection. 3 hrs. A study of shop layout problems.

501. Laboratory Organization and Management. 3 hrs. Organization of students and physical facilities.

503. Occupational Analysis and Course Construction. 3 hrs. Analyzing occupations into their basic components and arranging for instructional purposes.

504. Problems of the Coordinator. 3 hrs. A study of the problems, procedures, techniques, etc., in the operation of part-time cooperative education.

521. Power Transmissions. 3 hrs. A study of mechanical, hydraulic, pneumatic and electrical power and transmission.

531. Principles of Trade and Industrial Teaching. 3 hrs. A methods course for teaching trade and industrial subjects.

532. Problems in Adult Education. 3 hrs. Methods and techniques in teaching adults in industrial education classes.

533. Curriculum Construction for Cooperative and Adult Vocational Education 3 hrs. Objectives, content, and arrangement of units for teaching cooperative and evening classes.

534. Occupational Surveys. 3 hrs. Planning and conducting local survey for educational purposes.

535. Instructional Materials for Industrial Education. 3 hrs. Identification, selection, development, and use of instructional aids in vocational and technical education.

536. Curriculum Construction for Vocational Technical Education. 3 hrs. Principles, practices and techniques in planning and establishing a class or program in vo-tech education.

537. Industrial Human Relations. A study of human behavior and interpersonal dynamics within the industrial organization and environment. Primarily for industrial educators.

562. Advanced Machine Tool Techniques. 3 hrs. Advanced study of machine tool operations processes and procedures.

580. History and Philosophy of Vocational Education. 3 hrs. Objectives, principles, aims, and organization of programs in schools and colleges.

581. Testing and Evaluation in Vocational Education. 3 hrs. Development and utilization of various measuring devices and techniques.

582. Industrial and Vocational Safety. 3 hrs. Analysis of fundamentals of accident prevention and their application in school shops.

583. Occupational Safety. 3 hrs. Organization and administration of safety programs including implementation of the Occupational Safety and Health Act. Primarily for industrial educators.

597. Interdisciplinary Seminar in Developmental Disabilities. 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

604. Shop and Small Plant Design. 3 hrs. Problems in design of work stations, production lines, and materials control.

605. History of Industrial Education. 3 hrs. A study of leaders, movements, and agencies in the development of industrial education.

606. Philosophy of Industrial Arts Education. 3 hrs. A study and evaluation of the leading philosophies in the field.

607. Organization of Instructional Materials in Industrial Education. 3 hrs. A study of the development and utilization of various instructional materials.

611. Philosophy and Organization of Vocational Education. 3 hrs. Principles and development of vocational education under state and federal acts.

689. Seminar in Industrial Education, I, II, III. 2 hrs. May be taken three times.

692. Special Problems in Industrial and Technical Education. 1-3 hrs. Advanced individualized project relevant to the student's skill speciality.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

701. Supervision of Vocational and Technical Education. 3 hrs. A study of the problems of local directors and supervisors of vocational and technical education.

702. Individualized Instruction in Vocational Technical Education. 3 hrs. Foundations, principles, and techniques of teaching knowledge and skills on an individual basis.

703. Contemporary Vocational and Technical Education Programs. 3 hrs. A comparative analysis of contemporary and emerging programs in vocational education.

704. Vocational Guidance and Placement. 3 hrs. An overview of careers available through vocational and technical education, methods of student identification placement, and follow-up.

794. Field Problem in Industrial and Vocational Education. 3 hrs. Prerequisites: REF 601, REF 702, and approval of the major professor.

798. Specialist Thesis. 6 hrs. Utilizing research and professional knowledge in the solution of a practical educational problem. Scholarly paper required.

INDUSTRIAL TECHNOLOGY CURRICULUM (INT-395)

505. Production Technology. 3 hrs. Plant layout, materials handling, production evaluation, set-up and maintenance procedures.

506. Industrial Automation. 3 hrs. Automation and its implications to industrial processes, economics, and interpersonal relations.

507. Personnel in Technology. 3 hrs. The procurement, development, and utilization of technical personnel.

508. Innovations in Technology. 3 hrs. Introduction to factors involved in technological change within an industrial operation.

509. Plant Layout. 3 hrs. Effectiveness of plant layout to the production activity involving personnel, materials, tools, and equipment.

540. Alternate Energy Systems. 3 hrs. Study of alternative sources of energy and power.

576. Electrical Safety in Industry. 3 hrs. Electrical equipment safety. Injuries caused by electrical faults. Inspection and maintenance of electrical equipment.

577. Fire Safety in Industry. 3 hrs. Factors contributing to industrial fires. Chemistry and classification of fires. Fire extinguishers and water systems. Fire prevention.

592. Special Problems. 1-3 hrs. Prerequisite: Senior standing and approval of adviser. Supervised study in selected areas.

INSTITUTION ADMINISTRATION (IAD-817)

570. The School Lunch. 3 hrs.

571. Institution Food Purchasing. 3 hrs.

672. Quantity Food Preparation. 3 hrs. Prerequisite: Permission of instructor.

673. School Lunch Supervision. 3 hrs.

674. Institution Organization and Administration. 3 hrs.

676. Seminar in Institution Management. 3 hrs. May be repeated for a total of 6 hours.

692. Special Problems in Institution Administration. 1-4 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

JOURNALISM (JOU-212)

See Course Listing under **COMMUNICATION**, page 170.

LIBRARY SCIENCE (LS-170)

501. Introduction to Reference Resources and Services. 3 hrs. Introduction to reference materials, services, activities, and functions as well as methods for locating information.

505. Cataloging and Classification I. 3 hrs. Principles and methods of descriptive cataloging of book and non-book materials. Introduction and practical application of Anglo-American Cataloging Rules. Introduction to OCLC.

506. Cataloging and Classification II. 3 hrs. Principles and methods of classification and subject indexing. Coverage of Dewey Decimal and Library of Congress Classification schemes. Introduction to on-line cataloging and classification. Hands-on experience with OCLC.

511. Development of Library Collections. 3 hrs. Principles governing the selection and procurement of all types of library materials, including the use of selection aids and bibliographic sources for developing both print and non-print collections.

+ **516. Audiovisual Media and Equipment.** 3 hrs. A survey of media resources and equipment with an emphasis on utilization in libraries.

517. Literature and Related Media for Children. 3 hrs. A survey of children's literature, traditional and modern, and other related materials for use by and with children of grades 1-6.

518. Literature and Related Media for Adolescents. 3 hrs. Study of adolescent literature and other related materials for use by and with young people of grades 7-12.

525. Instructional Styles and Models in Media Programs. 3 hrs. The assessment of individualized styles and models of instruction in media programs and media centers.

526. Film and Television in Media Programs. 3 hrs. Selection, acquisition, organization, and utilization of film and television materials for service in media programs. Emphasis on familiarity with diverse film and television programming.

590. Instructional Television Workshop. 3 hrs. Planning, organizing, presentation, and use of television in instructional settings. Emphasis on Mississippi's instructional television programs.

591. School Media Center Administration Workshop. 3 hrs. Intensive workshop on problems of media center administration. May be taken twice; only three hours of credit can be applied to degree requirements.

593. Public Libraries Workshop. 3 hrs. Workshop on problems involved in the administration and supervision of public libraries. Emphasis on discussion of topics relevant to participants.

605. Library Management. 3 hrs. A survey of administrative theory and principles in relationship to the organization and operation of all types of libraries.

609. Administration and Media Centers. 3 hrs. Survey of the problems in the management of media programs. Emphasis on organizing, staffing, financing, and use of evaluation standards.

+ **616. Instructional Graphics.** 3 hrs. Prerequisite: LS 516. Instruction in the skills and techniques required in the production of visual media. Emphasis on the design and use of graphic materials.

618. Instructional Photography. 3 hrs. Prerequisite: LS 516. Provides knowledge and skills required for the use of photography in instructional settings.

620. Foundations of Instructional Technology. 3 hrs. Survey of the historical aspects of instructional media. Application of research in the development of technology relating to libraries, classrooms, industry, and instructional settings.

621. Selection and Organization of Media Resources. 3 hrs. Prerequisite: LS 516. Selection, evaluation, servicing, and use of non-print materials and equipment. Introduction to communication theory.

+ **622. Design and Production of Media Materials.** 3 hrs. Prerequisite: LS 516. Production of visual materials for utilization in instructional environments. Includes laboratory experience in projected media and the systems approach to designing visual products.

+ **623. Advanced Media Production Techniques.** 3 hrs. Prerequisites: LS 516 and 618 or permission of the instructor. Instruction in the techniques of producing visual programs. Emphasis on specialized photographic and graphic techniques.

624. Creative Library Programs for Children and Youth. 3 hrs. Prerequisite: LS 517 or 518. Explores the development of creative visual forms and use of cultural resources in library services to children and adolescents.

625. Instructional Video and Film Production. 3 hrs. Prerequisites: LS 516 and 618 or permission of the instructor. Provides knowledge and skills required in producing and supervising video and film productions.

628. Storytelling. 3 hrs. Prerequisite: LS 517 or 518. A study of oral tradition and folk literature with emphasis upon selection of stories and the art and techniques of storytelling. Provides practice in storytelling.

629. Studies in Children's Literature. 1-3 hrs. Prerequisite: LS 517. Advanced study and evaluation of children's literature and publishing trends in the field.

631. History of Libraries. 3 hrs. Development of libraries from ancient times to the present with special reference to the relationship of libraries to sociocultural, economic, and political trends.

633. History of Books and Printing. 3 hrs. Evolution of the book from earliest times to the present; examination of the invention and spread of printing.

634. History of Children's Literature. 3 hrs. Prerequisite: LS 517 or 518. Traces the development of children's literature in England and the United States to the early twentieth century.

636. The Library in American Society. 3 hrs. The library as a social institution, its background, and the forces that have shaped its development.

638. Trends in American Publishing. 3 hrs. A survey of contemporary American publishing and book manufacturing with emphasis upon the relationship of the book trade to libraries.

640. Academic Libraries. 3 hrs. The development and administration of the academic library.

641. Public Libraries. 3 hrs. The development and administration of the public library. Problems in public library services.

642. Special Libraries. 3 hrs. The development and administration of the special libraries serving businesses, institutions, and government agencies.

646. Special Collections and Archives. 3 hrs. Prerequisites: LS 501 and 505. The acquiring, processing, servicing, and management of collections composed of rare books, manuscripts, archival papers, oral history files, and other special materials.

648. **Archival Practicum.** 3 hrs. Prerequisite: LS 646. Provides an opportunity for supervised practice in special collections and archival operations.

651. **Introduction to Information Science.** 3 hrs. Survey of information science as a field of study; the role of major information and documentation centers.

654. **Library Automation.** 3 hrs. Study of the theory of computer programming and its application to the solution of the library problems.

663. **Subject Bibliography.** 3 hrs. Prerequisite: LS 501. An evaluation of library resources in various subject fields with emphasis on characteristics of subject literatures, problems of use, and bibliographical control and organization.

664. **Government Publications.** 3 hrs. Prerequisite: LS 501. Study of the types of government publications and tools for their bibliographic organization.

665. **Bibliography of the Humanities.** 3 hrs. Prerequisite: LS 501. Study, evaluation, and utilization of library resources in the humanities.

666. **Bibliography of the Social Sciences.** 3 hrs. Prerequisite: LS 501. Study, evaluation, and utilization of library and information resources in the social sciences.

667. **Bibliography of Science and Technology.** 3 hrs. Prerequisite: LS 501. Study, evaluation, and utilization of library and information sources in the pure and applied sciences.

668. **Research Methods in Library Science.** 3 hrs. Survey of scientific research methods and their application to the field of library and information science.

675. **Seminar in the Organization of Materials.** 3 hrs. Prerequisites: LS 505 and LS 506. An examination of the historical, theoretical, and practical aspects of processing information through an analysis of descriptive and subject techniques (schemes and lists) with emphasis on the Library of Congress Classification.

680. **Studies in International Librarianship-Great Britain.** 3 hrs. Prerequisite: Permission of the instructor. Compares and contrasts the bibliographic apparatus, library and information-related institutions, models of service, and professional patterns of American and British librarianship.

689. **Library Practicum.** 2-4 hrs. Prerequisite: Permission of the practicum coordinator.

691. **Research in Library Science.** 1-9 hrs. Prerequisite: Permission of Dean.

692. **Special Problems in Librarianship.** 1-3 hrs. A problem study to be approved by the department chairman.

694. **Field Problems.** 3 hrs. Prerequisite: Permission of department chairman. Practical experiences in dealing with problem situations in the field and related institutional settings.

697. **Independent Study.** 1-3 hrs. Students not in residence but actively working on a thesis or making use of University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. Credit not recorded until thesis is accepted by the major professor.

MANAGEMENT (MGT-620)

568. **Compensation Administration.** 3 hrs. Prerequisites: MGT 360. Problems in wage and salary administration; job analysis; job evaluation, incentive systems, wage surveys, and fringe benefits.

572. Labor Relations. 3 hrs. An integrated study of collective bargaining theory and practical application.

582. Production Problems Seminar. 3 hrs. Prerequisite: Background in industrial management. Production problems and policies including selection and maintenance of equipment, product mix and quality, and production controls.

584. Problems in Personnel Administration. 3 hrs. Prerequisite: Background in personnel management. Application of the principles of personnel administration through the use of case analysis, incidents, and role playing.

596. Small Business Consulting. 3 hrs. Prerequisite: Consent of instructor. Actual problem solving in business firms.

610. Production Management. 3 hrs. Prerequisites: MGT 465, 467, or consent of instructor. Analysis of managerial production functions and processes including product and plant planning, maintenance, quality control, and purchasing.

620. Problems in Management. 3 hrs. A case study of selected social, economic, industrial and personnel management problems.

625. Human Relations and Organization Theory. 3 hrs. A study of interpersonal relationships in organizations and the design, analysis of organization structures.

630. Survey of Labor-Management Relations. 3 hrs. A survey of the development of labor law and collective bargaining.

635. Labor Arbitration. 3 hrs. Prerequisite: MGT 472 or MGT 630 or consent of instructor. Provides an introduction to the process and law of labor arbitration.

636. Public Sector Labor Relations. 3 hrs. Prerequisite: MGT 630 or consent of instructor. A survey of the development of labor law and collective bargaining in the Public Sector.

640. Advanced Personnel Administration. 3 hrs. Prerequisite: MGT 364 or consent of instructor. An in-depth study of U.S. and international human resource administration.

669. Behavioral Dynamics in Organizations. 3 hrs. An experiential study of behavioral dynamics in organizations; development of knowledge of behavioral systems and skills in the application and use of the knowledge in work situations.

675. Small Group Leadership and Facilitating Skills. 3 hrs. Prerequisite: Students are interviewed and selected by the instructor. A workshop/seminar/practicum experience to building leadership, communication, and facilitating skills useful in organizational and training settings.

692. Special Problems in Management. 3 hrs. Prerequisite: Permission of department chairman.

MARKETING (MKT-625)

524. Market Research. 3 hrs. Prerequisites: MKT 300 and ECO 302. A study of principles and techniques used in market research and evaluation of such research.

528. Marketing Management. 3 hrs. A comprehensive case course designed to synthesize the more specialized marketing knowledge of the student.

542. Advanced Retailing. 3 hrs. Prerequisite: MKT 300 and MKT 342. An examination of specific problem areas in retail store management including retail innovations, spatial competition, and retail mix development.

558. Promotion Development. 3 hrs. Prerequisite: Graduate status. A study of the relationship of the business organization to the various interest groups which affect its promotional results.

595. International Marketing. 3 hrs. Prerequisite: Graduate status. The economic, political, and cultural aspects of international business operations.

625. Seminar in Marketing. 3 hrs. A survey of marketing theory and practices designed to give the non-marketing student functional knowledge of the field.

635. Seminar in Consumer Behavior. 3 hrs. Application of behavioral science concepts to research and marketing decisions.

640. Marketing Planning. 3 hrs. A case study of the methods used by firms to reach their marketing goals through the application of planning, budgeting, and costing theory.

650. Marketing Research Seminar. 3 hrs. A study of advanced research techniques used in market analysis.

692. Special Problems in Marketing. 3 hrs. Consent of the chairman of the Marketing Department is required prior to registration.

MARRIAGE AND FAMILY LIFE (MFL-830)

650. Early Marriage Adjustment. 3 hrs.

651. Parents and Children. 3 hrs.

652. The Family in the Community. 3 hrs. Designed to help the teacher understand better the social setting in which students live and its importance in the development of family living courses to meet student needs.

653. Personal and Family Adaptation to Aging: A Developmental Approach. 3 hrs. A study of the opportunities and responsibilities faced by families during the middle and aging years in the creation and adaptation of the environment to meet their needs.

658. Seminar in Family Living. 3 hrs. May be repeated for a total of 6 hours.

691. Research in Family Living. 1-4 hrs.

692. Special Problems in Family Living. 1-4 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

MATHEMATICS (MAT-350)

508. Mathematical Foundations for In-Service Elementary School Teachers, K-3. 3 hrs. Numeration, place value, intuitive geometry, measurement, arithmetic algorithms.

509. Mathematical Foundations for In-Service Elementary School Teachers, 4-6. 3 hrs. Intuitive geometry, integers, rational numbers, probability, graphing metric system, word problems.

510. Mathematics for Teachers of Junior High School Mathematics. 3 hrs. Numbers and infinite sets, geometry, non-Euclidean geometry, coordinate geometry, trigonometry, functions, probability, statistics. (Open only to elementary and special education majors or as an elective for mathematics majors.)

511. Vector Analysis. 3 hrs. Prerequisite: MAT 379. Vector valued functions, space curves, line and surface integration, the divergence theorem, Green's and Stokes' theorems.

515. Introduction to Differential Equations II. 3 hrs. Prerequisite: MAT 385. Systems of linear differential equations, characteristic equations, operator methods, approximating solutions, Laplace transforms.

517. Introduction to Partial Differential Equations. 3 hrs. Prerequisites: MAT 385. Integrability conditions, quasilinear and linear equations, applications to physics, classification of second order equations and canonical forms, separation of variables.

518. Linear Programming. 3 hrs. Prerequisite: MAT 326. Convex sets, linear inequalities, extreme-point solutions, simplex procedure, applications.

519. Optimization in Mathematical Programming. 3 hrs. Prerequisites: MAT 326 and MAT 379. Selected topics in optimization from linear and nonlinear programming.

520. Statistics and Probability. 3 hrs. Prerequisites: MAT 341 and MAT 379. Random variables, probability functions, independent events, conditional probability, expectation, hypothesis testing.

521. Number Theory. 3 hrs. Prerequisite: MAT 341. Induction, well ordering, division algorithm, Euclidean algorithm, Fundamental Theorem of arithmetic, number theoretic functions, congruences.

523. Modern Algebra I. 3 hrs. Prerequisite: MAT 341. Survey of standard algebraic systems; rings, integral domains, fields, modules, polynomial rings, quotient rings, fields of quotients.

524. Modern Algebra II. 3 hrs. Prerequisite: MAT 423. Elementary notions in groups, Fundamental Theorem of Finitely Generated Groups, permutation groups, quotient groups, the isomorphism theorems, applications of transformation groups.

525. Fourier Series. 3 hrs. Prerequisites: MAT 326 and MAT 385. Orthogonal functions, Fourier series, convergence and applications.

526. Linear Algebra II. 3 hrs. Prerequisite: MAT 326. Determinants, polynomials, complex numbers, single linear transformations, orthogonal, unitary and symmetric linear transformations.

535. Laplace Transform. 3 hrs. Corequisite: MAT 385. Transforms, inverse transforms, convolution theorem, differentiation and integration of transforms, applications to differential equations.

536. Theory of Functions of a Complex Variable I. 3 hrs. Prerequisite: MAT 379. Complex numbers and functions, limits, continuity, differentiation, analytic functions, branches, contour integration, series.

537. Graph Theory. 3 hrs. Prerequisite: MAT 341. An introduction to graphs and a sampling of their numerous and diverse applications.

539. Combinatorics. 3 hrs. Prerequisites: MAT 326, 341, and 377 or 378. 3 hrs. Counting and enumeration techniques, inversion formulas and their applications, and counting schemata relative to permutations of objects.

541. Advanced Calculus I. 3 hrs. Point set theory, sequences, continuity, uniform continuity, limits, mean value theorems, L'Hospital's rule.

542. Advanced Calculus II. 3 hrs. Prerequisite: MAT 441. Riemann integration, Taylor's theorem, improper integrals, infinite series, uniform convergence.

560. Numerical Analysis I. 3 hrs. Prerequisites: MAT 326, MAT 379, CSS 240. Methods of solving equations and systems of equations, error analysis, difference equations.

561. Numerical Analysis II. 3 hrs. Prerequisites: MAT 385, MAT 460, CSS 340. Interpolating polynomial, numerical differentiation and integration, numerical solutions of differential equations, round off error.

573. Metric Spaces. 3 hrs. Continuity, Hausdorff and countability axioms, products, Euclidean spaces, connectedness, compactness, Heine-Borel and Bolzano-Weierstrass theorems.

575. General Topology I. 3 hrs. General topological spaces, bases and sub-bases, continuity.

576. General Topology II. 3 hrs. Prerequisite: MAT 475. Connectedness, separation axioms, countability axioms, compactness, metrizability.

580. Mathematics for In-Service Secondary School Teachers I. 3 hrs. Prerequisite: 24 hours of mathematics excluding pre-calculus courses, secondary mathematics teaching experience. Special mathematical topics for in-service secondary school mathematics teachers, to include algebra, number theory, graph theory, and combinatorics.

581. Mathematics for In-Service Secondary School Teachers II. 3 hrs. Prerequisites: 24 hours of mathematics excluding pre-calculus courses, secondary mathematics teaching experience. Special mathematical topics for in-service secondary school mathematics teachers, to include probability theory, analysis, applied mathematics, topology, geometry.

592. Special Problems I, II. 1-3 hrs. each.

601. Differential Geometry I. 3 hrs. Prerequisite: MAT 411. An introduction to the theory of plane curves, space curves, and surfaces.

603. Modern Algebra. 3 hrs. Prerequisite: MAT 424. Simple groups, solvable groups, the Sylow theorems, presentations of groups, category terminology, introductory homological algebra.

605. Ordinary Differential Equations. 3 hrs. Prerequisite: MAT 415. Topics from the theory of ordinary differential equations. Specific topics to be selected by the instructor.

606. Partial Differential Equations. 3 hrs. Prerequisite: MAT 417. Dirichlet, Neuman, and mixed boundary value problems. Classical techniques of solution of partial differential equations. Applications.

636. Functions of a Complex Variable II. 3 hrs. Prerequisite: MAT 436. Taylor and Laurent series, residue calculus, conformal mapping with applications, integral formulas of the Poisson type, analytic continuation.

637. Functions of a Complex Variable III. 3 hrs. Prerequisite: MAT 636. A continuation of MAT 636.

641. Functions of a Real Variable I. 3 hrs. Prerequisite: MAT 442. Foundations of real analysis and introduction to Lebesgue integration.

642. Functions of Real Variable II. 3 hrs. Prerequisite: MAT 641. Continuation of MAT 641.

651. Applied Mathematics I. 3 hrs. Vector spaces, linear transformations, matrices, eigenvalues, eigenvectors, diagonalization, spectral decomposition, canonical forms.

652. Applied Mathematics II. 3 hrs. Prerequisite: MAT 651. Corequisite: MAT 442. Point sets in Euclidean n -space, sequences, continuity, convergence, integration, integral operator and expansion theorems.

675. Topology. 3 hrs. Prerequisite: MAT 476. Properties of topological spaces such as imbedding and extension theorems, metrizable and compactification.

681. Topics in Algebra I, II, III. 3 hrs. Prerequisite: MAT 423 and permission of instructor. May be repeated for a maximum of nine hours credit.

682. Topics in Analysis I, II, III. 3 hrs. Prerequisite: Permission of instructor. May be repeated for a maximum of nine hours.

683. Topics in Topology and Geometry I, II, III. 3 hrs. Prerequisite: Permission of instructor. May be repeated for a maximum of nine hours of credit.

689. Mathematics Seminar I, II, III, IV. 1 hr. Prerequisite: Permission of instructor.

691. Research in Mathematics. 1-9 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

MECHANICAL TECHNOLOGY (MET-397)

544. Solar Heating and Cooling. 3 hrs. Solar Energy conversion methods; collectors; residential, commercial solar, heating and cooling. Economics of solar energy. Total energy systems.

544-L. Solar Heating and Cooling Laboratory. 1 hr.

592. Special Problems. 1-3 hrs. Prerequisite: Senior standing and approval of faculty adviser.

MEDICAL TECHNOLOGY (MTC-354)

689. Medical Technology Seminar. 1 hr. Presentation of current material related to clinical medicine.

692. Special Problems in Medical Technology. 2-8 hrs. Individuals will be assigned some specific clinical problem in medical technology to investigate under faculty direction.

697. Independent Study and Research. 1-9 hrs. Not be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis or doing an internship at a clinical facility must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

MICROBIOLOGY (MIC-310)

501. Microorganisms in Health and Disease. 4 hrs. A comprehensive survey of microorganisms of public health significance for nursing students.

511. Pathogenic Microbiology. 2 hrs. Schemes for isolation and identification of major groups of disease-producing microorganisms.

511-L. Pathogenic Microbiology Laboratory. 2 hrs.

512. Advanced Pathogenic Microbiology. 2 hrs. Continuation of MIC 511 on an advanced level.

512-L. Advanced Pathogenic Microbiology Laboratory. 2 hrs.

513. **Medical Mycology.** 2 hrs. Prerequisite: Permission of instructor. Consideration of the fungi of medical significance.

513-L. **Medical Mycology Laboratory.** 1 hr.

521. **Virology and Tissue Culture.** 2 hrs. Survey of viruses and viral classification, including viral diseases, involving tissue culture techniques.

521-L. **Virology and Tissue Culture Laboratory.** 2 hrs.

522. **Viral Pathogenesis and Diagnosis.** 2 hrs. Host-Viral interaction from a pathological and immunological viewpoint with isolation and laboratory characterization.

522-L. **Viral Pathogenesis and Diagnosis Laboratory.** 2 hrs.

541. **Immunology and Serology.** 3 hrs. Studies of infection, resistance, types of immunity and hypersensitivity.

541-L. **Immunology and Serology Laboratory.** 1 hr. A laboratory introduction to cellular and serologic immune reactions and their diagnostic usefulness.

555. **Microbial Physiology.** 3 hrs. A comprehensive survey of bacterial structure, nutrition, and biochemistry.

555-L. **Microbial Physiology Laboratory.** 1 hr.

561. **Food Microbiology.** 2 hrs. Microorganisms affiliated with the preparation, spoilage, pathogenicity, and sanitation of foods.

561-L. **Food Microbiology Laboratory.** 2 hrs.

571. **Microbiology of Water, Sewage, and Industrial Waste.** 2 hrs. Control of pure water supply.

571-L. **Microbiology of Water, Sewage, and Industrial Waste Laboratory.** 2 hrs.

691. **Research in Microbiology.** 1-9 hrs.

692. **Microbiological Problems.** 2-8 hrs. Offered only by special arrangement.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis or making use of University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

742. **Principles of Immunochemistry.** 2 hrs. A study of the chemistry of antigens, antibodies and complement and the mechanism of their interaction.

742-L. **Principles of Immunochemistry Laboratory.** 2 hrs.

743. **Immunohematology.** 4 hrs. A study of serological genetic, and anthropological aspects of human blood groups, isoantigens and antibodies.

751. **Advanced Microbial Physiology.** 4 hrs. Concepts of microbial nutrition, metabolism, adaptation, and genetics as related to growth and environment.

761. **Industrial Microbiology.** 4 hrs. An intensive study of microorganisms as applied to the production of organic compounds.

789. **Microbiology Seminar.** 1 hr. The presentation and defense of current, classical concepts and principles of microbiology.

791. **Research in Microbiology.** 1-9 hrs.

792. **Special Problems.** 3 hrs.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not residents but who are actively working on a dissertation or making use of University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

MUSIC (MUS-675)

531. **History of Opera.** 3 hrs. The history of musical theatre from Greek drama to present. Open to non-music majors with permission of instructor.

532. **American Music.** 3 hrs. A study of the development of music in North America. Open to non-music majors with permission of instructor.

533. **20th Century Music.** 3 hrs. Examination of music trends since Debussy and Mahler. Open to non-music majors with permission of instructor.

534. **Ancient, Medieval, and Renaissance Music.** 3 hrs. A study of the rise of music in the ancient world, the beginning of western music and of polyphony. Open to non-music majors with permission of instructor.

535. **Baroque Music.** 3 hrs. The development of musical styles and forms from Monteverdi through J.S. Bach. Open to non-music majors with permission of instructor.

536. **18th Century Music.** 3 hrs. The development of classical styles and forms, emphasis on *style galant*, *emfindsamer stil* and the Viennese classicists. Open to non-music majors with permission of instructor.

537. **19th Century Music.** 3 hrs. The development of musical romanticism, emphasis on the expansion of classical forms, and the appearance of new stylistic concepts. Open to non-music majors with permission of instructor.

539. **Diction.** 3 hrs. Systematic introduction to phonetics of various foreign languages as applied to singing. May be taken for a total of six (6) hours. The second registration permitted only into a section in which the languages emphasized are different.

540. **Vocal Literature.** 2 hrs.

541. **Vocal Literature.** 2 hrs. A continuation of MUS 540.

542. **Piano Literature.** 2 hrs.

543. **Piano Literature.** 2 hrs. A continuation of MUS 542.

544. **Organ Literature.** 2 hrs.

545. **Organ Literature.** 2 hrs. A continuation of MUS 544.

546. **Instrumental Literature.** 2 hrs.

547. **Instrumental Literature.** 2 hrs. A continuation of MUS 546.

548. **Choral Literature.** 2 hrs.

549. **Choral Literature.** 2 hrs. A continuation of MUS 548.

550. **Symphonic Literature.** 3 hrs. A history of and literature for the symphony orchestra from 1600 to the present. Open to non-music majors with permission of instructor.

551. **Chamber Music.** 3 hrs. A survey of music for small instrumental ensembles. Open to non-music majors with permission of instructor.

552. **Band Literature I.** 2 hrs. A survey of band literature, grades I through IV.

555. **Arranging for Marching Band.** 2 hrs. Designed to provide the arranger with the essential techniques of scoring for the outdoor band.

559. **Church Music Colloquium.** 3 hrs. Philosophies of church music as well as the administration, liturgies, and related materials will be studied.

562. **Hymnology.** 3 hrs. The history of the Christian hymn from its roots to present-day form.

620. Graduate Music Theory Review. 3 hrs. A survey of the materials of music with emphasis on the study of the harmonic system of the 18th and 19th centuries. Credit for this course may not be counted toward a graduate degree.

630. Graduate Music History Review. 3 hrs. A rapid study of music from Gregorian Chant through Penderecki. This course is required of all entering graduate students, but may be waived subject to an entrance examination in music history.

692. Special Problems, I, II, III. 1-3 hrs. each. Investigation of specialized areas of interest.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

702. Bibliography for Music Research. 3 hrs. An extensive examination of research materials, including music and non-music reference works.

711. Pedagogy of Theory. 3 hrs. A course in the teaching of music theory in the senior high school as well as the college level.

712. Seminar in Composition. 3 hrs. A composition class for non-composition majors.

713. Seminar in Music Theory. 2 hrs. For theory and composition majors; open to others with permission of instructor.

714. Composition Project. 6 hrs. Open to students with a major in theory and composition.

715. Recital. 1-3 hrs. Prerequisite: Permission of applied music instructor and approval by the major professor.

721. Analytical Techniques. 3 hrs. A course designed to develop technique in analysis of music from the time of early polyphony through the Baroque period.

722. Analytical Techniques. 3 hrs. A course designed to develop techniques in analysis of music in the Classical and Romantic periods.

723. Seminar in 20th Century Compositional Techniques. 3 hrs. A seminar in techniques utilized by composers in the 20th century. Emphasis will be placed on analysis of selected works.

724. Pre-Baroque Counterpoint. 2 hrs. Contrapuntal writing up to eight parts. Prerequisite: MUS 321 or permission of instructor.

725. Tonal Counterpoint. 2 hrs. Contrapuntal writing culminating in the fugue. Prerequisite: MUS 322 or permission of instructor.

727. Advanced Orchestration. 3 hrs. May be taken three times. Prerequisites: MUS 401 or permission of instructor.

728. Preparation and Publication of Music. 3 hrs. A course designed to acquaint students with problems involved in preparing music for professional purposes.

731. Seminar in Performance Practices I. 3 hrs. A study of the conductor's and performer's problems in the interpretation and performance of vocal and instrumental music of the 17th and 18th centuries.

732. Seminar in Performance Practices II. 3 hrs. A study of the conductor's and performer's problems in the interpretation and performance of vocal and instrumental music of the 19th and 20th centuries.

740. Seminar in Solo Vocal Literature. 3 hrs. Study of selected song, oratorio or cantata literature.

752. Band Literature II. 3 hrs. A survey of band literature, grades V and above.

760. Seminar in History of Church Music. 3 hrs. Sacred choral literature from the Middle Ages to the present is surveyed. Organ literature as it applies to the church service is also examined.

761. Seminar in Music Literature. 3 hrs. A course designed to expand the student's knowledge of music literature through a period, historical, or school approach.

762. Seminar in Music Literature. 3 hrs. A continuation of MUS 761.

786. Concert Band Arranging. 2 hrs. Arranging, transcribing, editing, and rescoring for the concert band.

787. Arranging for School Choruses. 2 hrs. Concepts and techniques of scoring for voices, with emphasis on arranging rather than on original composition for choral organizations.

791. Research in Music. 1-9 hrs.

792. Special Problems I, II, III. 1-3 hrs. each, arr. Investigation of specialized areas of interest.

797. Independent Study and Research. Hrs. arr. Not to be counted toward a degree. Students who are not in residence but who are actively working on a dissertation with the major professor or making use of the library or other University facilities must enroll in this course.

821. Advanced Analytical Techniques. 3 hrs. An in-depth analysis of selected works prior to 1750. Prerequisite: MUS 721 or permission of music theory faculty.

822. Advanced Analytical Techniques. 3 hrs. An in-depth analysis of selected works chosen from the Classical and Romantic periods. Prerequisite: MUS 722 or permission of the music theory faculty.

823. Advanced Analytical Techniques. 3 hrs. An in-depth analysis of selected works chosen from the 20th century. Prerequisite: MUS 723 or permission of the music theory faculty.

870. First Doctoral Solo Recital. 3 hrs. Prerequisite: Permission of applied music instructor and approval of the major professor.

871. Doctoral Lecture Recital. 3 hrs. Prerequisite: Permission of applied music instructor and approval of the major professor.

872. Second Doctoral Solo Recital. 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor.

873. Concerto Performance with Band or Orchestra. 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor. A solo performance of a major work with a major performing ensemble is this **Bulletin's** definition of "concerto."

874. Major Solo Role in an Opera. 1 hr. Permission of applied music instructor and approval of the major professor.

875. Major Solo Role in Oratorio. 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor.

876. Chamber Music Recital. 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

MUSIC-APPLIED AND ORGANIZATIONS (APM-670)

- 601, 602. **Piano.** 1-4 hrs.
- 611, 612. **Organ.** 1-4 hrs.
- 614, 615. **Flute.** 1-4 hrs.
- 617, 618. **Oboe.** 1-4 hrs.
- 620, 621. **Clarinet.** 1-4 hrs.
- 623, 624, **Saxophone.** 1-4 hrs.
- 626, 627. **Bassoon.** 1-4 hrs.
- 629, 630. **Horn.** 1-4 hrs.
- 632, 633. **Trumpet.** 1-4 hrs.
- 635, 636. **Trombone.** 1-4 hrs.
- 638, 639. **Euphonium.** 1-4 hrs.
- 641, 642. **Tuba.** 1-4 hrs.
- 644, 645. **Violin.** 1-4 hrs.
- 647, 648. **Viola.** 1-4 hrs.
- 650, 651. **Cello.** 1-4 hrs.
- 653, 654. **String Bass.** 1-4 hrs.
- 656, 657. **Percussion.** 1-4 hrs.
- 661, 662. **Voice.** 1-4 hrs.
- 664, 665. **Harp.** 1-4 hrs.
- 667, 668. **Guitar.** 1-4 hrs.
- 671, 672, 673. **Chamber Music.** 1 hr.
- 681. **Orchestra.** 1 hr. May be taken three times.
- 682. **Band.** 1 hr. May be taken three times.
- 683. **Chorus.** 1 hr. May be taken three times.
- 684. **Jazz Lab. Band.** 1 hr.
- 685. **Collegium Musicum.** 1 hr. May be taken two times.
- 686. **Women's Chorus.** 1 hr. May be taken three times.
- 687. **Men's Chorus.** 1 hr. May be taken three times.
- 688. **University Singers.** 1 hr. May be taken three times.
- 689. **Chamber Singers.** 1 hr. May be taken three times.
- 691, 692, 693, 694. **Advanced Composition.** 1-3 hrs.
- 701, 702. **Piano.** 1-4 hrs.
- 711, 712. **Organ.** 1-4 hrs.
- 714, 715. **Flute.** 1-4 hrs.
- 717, 718. **Oboe.** 1-4 hrs.
- 720, 721. **Clarinet.** 1-4 hrs.
- 723, 724. **Saxophone.** 1-4 hrs.
- 726, 727. **Bassoon.** 1-4 hrs.
- 729, 730. **Horn.** 1-4 hrs.
- 732, 733. **Trumpet.** 1-4 hrs.
- 735, 736. **Trombone.** 1-4 hrs.
- 738, 739. **Euphonium.** 1-4 hrs.

- 741, 742. **Tuba.** 1-4 hrs.
- 744, 745. **Violin.** 1-4 hrs.
- 747, 748. **Viola.** 1-4 hrs.
- 750, 751. **Cello.** 1-4 hrs.
- 753, 754. **String Bass.** 1-4 hrs.
- 756, 757. **Percussion.** 1-4 hrs.
- 761, 762. **Voice.** 1-4 hrs.
- 764, 765. **Harp.** 1-4 hrs.
- 767, 768. **Guitar.** 1-4 hrs.
- 771, 772, 773. **Chamber Music.** 1 hr.
- 781. **Orchestra.** 1 hr. May be taken three times.
- 782. **Band.** 1 hr. May be taken three times.
- 783. **Chorus.** 1 hr. May be taken three times.
- 784. **Jazz Lab. Band.** 1 hr.
- 785. **Collegium Musicum.** 1 hr. May be taken two times.
- 786. **Women's Chorus.** 1 hr. May be taken three times.
- 787. **Men's Chorus.** 1 hr. May be taken three times
- 788. **University Singers.** 1 hr. May be taken three times.
- 789. **Chamber Singers.** 1 hr. May be taken three times.
- 791, 792, 793. **Composition.** 1-3 hrs.
- 801, 802. **Piano.** 1-4 hrs.
- 811, 812. **Organ.** 1-4 hrs.
- 814, 815. **Flute.** 1-4 hrs.
- 817, 818. **Oboe.** 1-4 hrs.
- 820, 821. **Clarinet.** 1-4 hrs.
- 823, 824. **Saxophone.** 1-4 hrs.
- 826, 827. **Bassoon.** 1-4 hrs.
- 829, 830. **Horn.** 1-4 hrs.
- 832, 833. **Trumpet.** 1-4 hrs.
- 835, 836. **Trombone.** 1-4 hrs.
- 838, 839. **Euphonium.** 1-4 hrs.
- 841, 842. **Tuba.** 1-4 hrs.
- 844, 845. **Violin.** 1-4 hrs.
- 847, 848. **Viola.** 1-4 hrs.
- 850, 851. **Cello.** 1-4 hrs.
- 853, 854. **String Bass.** 1-4 hrs.
- 856, 857. **Percussion.** 1-4 hrs.
- 861, 862. **Voice.** 1-4 hrs.
- 864, 865. **Harp.** 1-4 hrs.
- 871, 872, 873. **Chamber Music.** 1 hr.
- 881. **Orchestra.** 1 hr. May be taken three times.
- 882. **Band.** 1 hr. May be taken three times.
- 883. **Chorus.** 1 hr. May be taken three times.

- 884. **Jazz Lab Band.** 1 hr.
- 885. **Collegium Musicum.** 1 hr. May be taken two times.
- 886. **Women's Chorus.** 1 hr. May be taken three times.
- 887. **Men's Chorus.** 1 hr. May be taken three times.
- 888. **University Singers.** 1 hr. May be taken three times.
- 889. **Chamber Singers.** 1 hr. May be taken three times.
- 891, 892, 893. **Composition.** 1-3 hrs.

MUSIC EDUCATION (MED-680)

- 523. **Organ Construction and Design.** 3 hrs.
- 524. **Instrument Repair.** 3 hrs. Designed to give practical experience in preventive maintenance, minor repair and adjustment of string, woodwind, brass and percussion instruments.
- 529. **Piano Tuning and Repair.** 3 hrs. Study of basic techniques of tuning and repairing pianos.
- 539. **Vocal Techniques and Materials.** 3 hrs. Techniques and procedures for teaching correct vocal production habits; examination of choral literature for secondary school and collegiate levels.
- 562. **Music for Elementary Teachers II.** 3 hrs. Application of the fundamental skills of MED 361 in the selection of music materials and methods of presentation. May not be applied toward degrees in Music or Music Education.
- 590. **Piano Workshop.** 2 hrs. A course designed to meet the needs of the piano teacher, including a survey of standard materials together with a presentation of modern teaching methods. Cannot be applied toward a music degree.
- 591. **Instrumental Workshop.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 592. **Choral Workshop.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 593. **Elementary Music Workshop.** 2 hrs. Intensive examination of current problems, trends, and materials in the field of elementary music education. Cannot be applied toward a music degree.
- 594. **Marching Band Workshop.** 1-2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 595. **Instrumental Conductors Conference.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 596. **Choral Conductors Conference.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
- 698. **Thesis.** 1-6 hrs. for a total of 6 hrs. No thesis will be accepted unless accompanied by an abstract. Theses which employ questionnaires will not be accepted unless accompanied by summaries of the findings to be mailed to respondents.
- 700. **Advanced Vocal Pedagogy.** 2 hrs. Advanced study of vocal pedagogical procedures.

714. Administration and Supervision of Elementary and Secondary School Music Programs. 3 hrs. The organization, supervision, and evaluation of the total music program, including program development, problems of finance, and selection of personnel and equipment.

725. Foundations and Principles of Music Education. 3 hrs. Historical and philosophical foundations of the total music education program, and principles of teaching, learning, organization, administration.

726. Research in Music Education. 3 hrs. Investigation of current research and literature in music education; study of writing techniques pertinent to music education research.

731. Graduate Conducting I. 3 hrs. Development of conducting skill, rehearsal techniques, study and preparation of scores of standard band, choral, and orchestral repertoire.

732. Graduate Conducting II. 3 hrs. A continuation of MED 731.

733. Seminar in Conducting. 1-3 hrs. Techniques of advanced choral and instrumental conducting. Score analysis and problems of preparation and performance.

734. Woodwind Techniques and Materials. 2 hrs. A course dealing with the problems of teaching woodwind instruments and a comprehensive study of woodwind literature.

735. Brass Techniques and Materials. 2 hrs. A comprehensive survey of teaching techniques for the brasses with a survey of teaching materials emphasizing pedagogy textbooks and books designed for class instruction.

736. Percussion Techniques and Materials. 2 hrs. Performance techniques of all percussion instruments and a survey of teaching materials and literature for percussion.

737. String Techniques and Materials. 2 hrs. A comprehensive survey of teaching techniques for stringed instruments; survey of teaching materials emphasizing pedagogy textbooks and method books.

738. Keyboard Techniques and Materials. 2 hrs. An examination of keyboard literature as it relates to the techniques and practices of piano instruction.

740. Music Education in the Elementary Schools. 3 hrs. An advanced course in the development of music education programs for children.

750. Music in General Education. 3 hrs. An examination of the role of music in the general education of students throughout the educational system.

755. Aesthetics and Psychology of Music. 3 hrs. An examination of issues and theoretical positions in the areas of philosophy of music and of musical learning.

756. Evaluation and Guidance in Music Education. 3 hrs. The administration and interpretation of tests of musical talent and musical achievement.

791. Research in Music Education. 1-9 hrs. Prerequisite: Approval of the major professor.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 3 hrs.

825. Doctoral Seminar in Music Education. 3 hrs. Orientation to doctoral study. Studies in the history and philosophy of music education.

826. Doctoral Seminar in Music Education. 3 hrs. Primary focus on advanced research methods, techniques, and procedures appropriate to the doctoral level of music education.

828. Administration of College and University Music Programs. 3 hrs. A practical course in the principles of administration, organization, and goals of music programs at the college or university level.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

NURSING (NSG-070)

600. Seminar on Nursing Issues. 1 hr. Prerequisite or concurrent: NSG 601. Perspective of nursing as a practice discipline.

601. Theory Development in Nursing. 3 hrs. Concepts, models, and theories relevant to nursing practice, education, and research.

603. Nursing Research. 3 hrs. Prerequisite: Descriptive Statistics. Prerequisite or concurrent: NSG 601, and first course in major. Elements of the research process leading to the development of a proposal.

604. Seminar in Nursing Research. 2 hrs. Prerequisites: NSG 603 and approval of instructor. Data analysis, presentation, and interpretation.

611. Curriculum and Teaching in Nursing. 3 hrs. Prerequisite or concurrent: NSG 601. Curriculum development, selection, design, and evaluation of instructional systems for the teaching of nursing.

612. Concepts of Organizational Behavior in Nursing. 3 hrs. Prerequisite or concurrent: NSG 601. Theories and research related to organizational behavior in the administration of nursing services as impacting on specific populations.

613. Clinical Specialist in Nursing. 3 hrs. Prerequisite: NSG 621 or 631. Seminar with emphasis on historical, contemporary, and future practice of clinical nurse specialists.

614-L. Practice of Clinical Nurse Specialization. 4 hrs. Prerequisite: NSG 613 and permission of instructor. Seminar and advanced practicum in area of nursing specialization as identified by clinical major.

618. The Role of Nurse Administrator. 2 hrs. Prerequisites: NSG 603, 612. Analysis of the role of the nurse administrator relative to concepts of organizational behavior.

619. Fiscal Management for Nurses. 2 hrs. Prerequisite: NSG 612. Prerequisite or concurrent: NSG 600, NSG 618. Fiscal responsibility, utilization of financial management principles, and cost control measures in nursing administration.

621. Theories for Community Health Nursing. 3 hrs. Prerequisite or concurrent: NSG 601. Analysis of theories and research relevant to community health nursing with emphasis on a multidisciplinary approach.

622. Seminar in Community Health Nursing. 2 hrs. Prerequisite: NSG 621; Prerequisite or concurrent: NSG 604. Assessment and design of programs of community health nursing for specific populations.

622-L. Community Health Nursing Seminar and Practicum. 2 hrs. Concurrent: NSG 622. Implementation and evaluation of community health nursing programs for specific populations.

623. National and International Community Health Nursing Problems. 2 hrs. Prerequisite: NSG 622. Analysis of organizations and resources affecting health care relevant to historical, contemporary, and future practice of community health nursing.

623-L. Seminar and Practicum Relevant to National and International Health Issues. 2 hrs. Concurrent: NSG 623. Synthesis and application of theories, research, and technologies affecting community health nursing programs and practice.

631. Theories for Mental Health Nursing. 3 hrs. Prerequisite or concurrent: NSG 601. Analysis of theories and research relevant to mental health nursing.

632. Seminar in Mental Health Nursing. 2 hrs. Prerequisite: NSG 631; Prerequisite or concurrent: NSG 604. Design and evaluation of nursing systems for individuals, families, and groups.

632-L. Mental Health Nursing Practicum. 2 hrs. Concurrent: NSG 632. Analysis, design, implementation, and evaluation of mental health nursing systems for individuals, families, and groups.

633. Community Mental Health Nursing. 2 hrs. Prerequisite: NSG 632. Analysis of theories, research, and trends relevant to community mental health.

633-L. Community Mental Health Nursing Practicum. 2 hrs. Concurrent: NSG 633. Assessment and evaluation of prevailing practices and designing of models for change.

652. Multi-Cultural Mental Health Assessment. 2 hrs. Prerequisite: NSG 631; prerequisite or concurrent: NSG 604. Assessment of mental health needs and resources of multi-cultural high risk groups in unserved and underserved areas.

652-L. Multi-Cultural Mental Health Nursing Practicum. 2 hrs. Concurrent: NSG 652. Design, implementation, and evaluation of mental health nursing systems for high risk multi-cultural groups.

653. Seminar in Cross-Cultural Mental Health Nursing. 2 hrs. Prerequisite: NSG 652. Seminar in cross-cultural mental health nursing with analysis of theory, research, and trends relevant to high risk unserved and underserved groups.

653-L. Cross-Cultural Mental Health Nursing Practicum. 2 hrs. Concurrent: NSG 653. Assessment, implementation, and evaluation of nursing systems for high risk unserved and underserved groups.

678. Seminar in Teaching. 2 hrs. Prerequisite: NSG 611; prerequisite or concurrent: role elective. Role, change and conflict theory; evaluation; legal aspects; university governance; student faculty relations.

678-L. Teaching Practicum. 2 hrs. Concurrent: NSG 678. Application of theories in classroom/clinical teaching; evaluation process; and faculty role in schools of nursing.

679-L. Nursing Administration Practicum. 2 or 4 hrs. As Minor: 2 hrs. Prerequisite: NSG 604 and 618. Prerequisite or concurrent: role cognate. As Major: 4 hrs. Prerequisite: NSG 604, 618, 619, role cognate. Synthesis and application of theories relative to the role of the nurse administrator.

691. Individualized Study in Nursing. 1-3 hrs. Prerequisite: Approval of instructor. Student selects an area of interest in nursing for study.

692. Special Studies in Nursing. 3 hrs. Prerequisite: NSG 604. Prerequisite or concurrent: Relevant 3 credit cognate. Student plans and completes project. A formal written report is required.

697. Independent Study and Research. 1-3 hrs. Students who are not in residence but who are actively working on a thesis or making use of University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of six hours. Prerequisite: NSG 604. Credit deferred until thesis completed.

PHILOSOPHY (PHI-284)

506. **Philosophy of Man.** 3 hrs. Philosophical consideration of the nature of man including topics in philosophical anthropology and philosophy of mind.
515. **Philosophy for Teachers of Children.** 3 hrs. Survey and development of the materials and skills to teach children philosophically.
526. **Philosophy Summer Lectures in England.** 3-6 hrs. An introduction to the language and techniques of philosophy relevant to practical, critical problems.
536. **Aesthetics.** 3 hrs. Philosophical analysis of theories of art and beauty.
540. **American Philosophy.** 3 hrs. Survey of the development of philosophy in America and major American philosophers.
550. **Existentialism and Phenomenology.** 3 hrs. An examination of the central themes in contemporary European existentialism and phenomenology.
551. **Political Philosophy.** 3 hrs. The major schools of political philosophy from classical to contemporary times.
553. **Philosophy of Law.** 3 hrs. An inquiry into theories of law.
556. **The Philosophy of Science.** 3 hrs. The conditions and status of knowledge, perception, measurement, hypothesis and casuality.
558. **Symbolic Logic.** 3 hrs. The basic theory and operations of the sentential calculus, quantification, and the logic of relations.
560. **Analytic Philosophy.** 3 hrs. An examination of the central themes in contemporary British-American analytic philosophy.
610. **Philosophy of Religion.** 3 hrs. Seminar topics in philosophical theology.
620. **Seminar in Metaphysics.** 3 hrs. Classical and contemporary metaphysics will be examined. Modern criticism by logicians, analytic philosophers, and philosophers of science will be presented.
625. **Seminar in Modern Philosophy.** 3 hrs. A critical investigation of the writings of selected modern and contemporary philosophers.
630. **Seminar in Epistemology.** 3 hrs. Advanced study of issues concerning the theory of knowledge.
635. **Ethics.** 3 hrs. An advanced study of issues and problems in moral philosophy.
636. **Major Philosopher.** 3 hrs. An advanced study of the contributions of a selected philosopher.
681. **Departmental Seminar.** 1 hr. Repeatable up to a total of three semester credit hours.
692. **Special Problems.** 1-6 hrs. A problem study to be approved by the department chairman.
697. **Independent Study and Research.** 3 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

PHYSICAL EDUCATION (PED-730)

501. **Corrective, Adaptive, and Developmental Physical Education.** 3 hrs. Recognition of and corrective exercises for functional abnormalities.

504. Motor Development. 3 hrs. A study of the motor aspects of human growth and development processes.

510. Physical Education and Recreation for the Educationally Disabled and Other Behavioral Disorders. 3 hrs. The development of concepts and knowledge of physical education programs for LD, MR, ED and other disorders.

511. Physical Education and Recreation for the Crippled and Orthopedically Disabled. 3 hrs. The development of concepts and knowledge for the development of physical education programs for CP, PH, respiratory and other health impaired individuals.

512. Sports Programs for the Disabled. 3 hrs. To acquaint the student with competitive programs and special techniques used in preparing the disabled for participation in competitive sports programs.

515. Motor Development Project. 3 hrs.

524. Seminar in Elementary School Physical Education. 3 hrs. Comprehensive readings and discussions of all aspects of elementary school physical education.

551. Techniques of Teaching Stunts, Tumbling, and Use of Apparatus. 3 hrs.

590. Physical Education and Recreation for the Handicapped. 1-3 hrs.

601. Physiological Basic of Activity. 3 hrs. The study of the physiological bases of muscular activity with special attention to general effects on body functions.

602. Theory and Practice of Graded Exercise Testing. 3 hrs. Study and application of graded exercise testing safely and reproductively so as to obtain valid and reliable data.

603. Theory and Practice of Exercise Leadership. 3 hrs. Cognitive and practical learning experience in GXT, interpretation, prescriptions and supervision of exercise programs.

680. Research Techniques. 3 hrs. Discovery and recognition of problems, evaluation of problems and procedures, types and techniques of research.

691. Research I, II, III. 3-9 hrs.

692. Special Problems. 3 hrs.

697. Independent Study. 1-6 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

701. Advanced Physiology of Exercise. 3 hrs. Circulatory, respiratory, nervous, and muscular system during and after physical activity.

702. Physiology of Exercise Laboratory. 2 hrs. Use and care of physiology laboratory equipment.

703. Advanced Kinesiology. 3 hrs. The application of anatomical and physiological principles of kinesiology to physical activity.

704. Tests and Measurements in Physical Education. 3 hrs. Tests of fitness, skills, and abilities. Administration and interpretation.

705. Motor Learning. 3 hrs. Physical and psychological variables essential to motor learning.

709. Age Characteristics of Motor Skills. 3 hrs. Analysis of activities and relationships to motor development.

716. **Perceptual-Motor Problems; Diagnosis and Remediation.** 3 hrs. Emphasis on perceptual-motor test selection, administration and implications.

720. **Problems of Administration in Physical Education.** 3 hrs. Staff, finance, facilities, programs, and other problems faced by administrators.

722. **Organization and Administration of Intramural and Extramural Activities.** 3 hrs.

723. **Principles of Teaching Physical Education.** 3 hrs. Developing concepts in teaching methods employing physiological and kinesiological principles.

742. **Problems of Curriculum in Physical Education.** 3 hrs. Fundamental principles and bases of curriculum construction.

744. **Foundations and Trends in Health and Physical Education.** 3 hrs.

745. **Effective Teaching and Supervision in Physical Education.** 3 hrs. The improvement of individual teaching and supervision as a result of analyzing teaching behavior.

750. **Facilities and Equipment in Physical Education.** 3 hrs. Planning for indoor, outdoor, and special facilities and in physical education.

780. **Graduate Seminar.** 1 hr. May be repeated twice for a total of 3 hrs.

791. **Research.** 1-9 hrs.

792. **Special Problems.** 3 hrs.

796. **Practicum in Physical Education.** 2-6 hrs.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

801, 802, 803. **Physiological Effects of Motor Activity.** 3-9 hrs.

804. **Principles of Design and Construction of Test in Physical Education.** 3 hrs.

840. **Readings in Physical Education.** 3 hrs. Extensive reading and discussion of physical education literature.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

PHYSICS (PHY-360)

555. **Fluid Dynamics.** 3 hrs. Prerequisites: PHY 350, MAT 385. A mathematical development of the physical principles governing fluid flow.

561. **Modern Physics.** 3 hrs. Prerequisites: PHY 361 and PHY 350. Electromagnetic waves, relativity, and quantum theory.

562. **Modern Physics.** 3 hrs. Prerequisites: PHY 361 and PHY 350. Quantum theory and wave mechanics.

564. **Fundamentals of Solid State Physics.** 3 hrs. Prerequisite: Permission. The basic physical processes which occur in solids and semiconductors.

565. **Nuclear Physics.** 3 hrs. Prerequisite: PHY 361. Nuclear binding forces, chain reaction, and the non-steady state reactor, radiation detection.

585. **History and Literature of Physics.** 3 hrs. A survey of the history of physics from ancient times, stressing the rise and fall of concepts.

601. **Mechanics.** 3 hrs. Prerequisite: Permission. A formal mathematical development of graduate level mechanics.

602. **Electricity and Magnetism.** 3 hrs. Prerequisite: Permission. A formal mathematical development of graduate level electricity and magnetism.

604. **Physics for High School Teachers.** 3 hrs. Prerequisite: Permission. Principles of physics designed to up-date the teacher's effectiveness in teaching physics.

605. **Special Topics in Theoretical or Experimental Physics.** 3 hrs. Prerequisite: Permission. Subjects depend upon current interest of students and staff.

610. **Astronomy for Teachers.** 3 hrs. Prerequisite: Permission. Solar-system and stellar astronomy.

640. **Electron Optics and Its Applications.** 3 hrs. Prerequisite: Permission. Electrostatic and magnetic lenses, electron microscopes.

650. **Quantum Mechanics I.** 3 hrs. Prerequisite: Permission. The Schroedinger equation, operators and eigenfunctions, spherically symmetric systems.

651. **Quantum Mechanics II.** 3 hrs. Prerequisite: Permission. Scattering theory, matrix mechanics, angular momentum, perturbation theory.

689. **Seminar I.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

689. **Seminar II.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

689. **Seminar III.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

689. **Seminar IV.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

691. **Research in Physics.** 1-9 hrs.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hours.

POLITICAL SCIENCE (PS-280)

501. **Political Socialization.** 3 hrs. An analysis of the American political system on an advanced level.

502. **Urban Politics.** 3 hrs.

504. **The Legislative Process.** 3 hrs.

506. **American Political Parties and Pressure Groups.** 3 hrs.

507. **Mississippi Government.** 3 hrs.

508. **The American Presidency.** 3 hrs. An analysis of the selection, role, power, and performance of the presidency.

509. **Southern Politics.** 3 hrs. An examination of the politics and political culture of the southern states.

520. **Political Theory to Locke.** 3 hrs.

521. **Political Theory Locke to Present.** 3 hrs.

525. **American Political Theory.** 3 hrs.

531. **International Organization.** 3 hrs.

532. **Foreign Policies of the Major Powers.** 3 hrs.

534. **Latin America in World Affairs.** 3 hrs. A study of hemisphere relations, with emphasis on the United States and Latin America, bilaterally and multilaterally.

535. **Comparative Foreign Policy.** 3 hrs.
550. **Comparative Studies in European Politics.** 3 hrs.
551. **Soviet Government and Politics.** 3 hrs.
552. **The Political Systems of Great Britain and the Commonwealth.** 3 hrs.
553. **Governments and Politics in the Middle East.** 3 hrs.
555. **Governments and Politics in Tropical Africa.** 3 hrs.
556. **Latin American Governments and Politics.** 3 hrs.
557. **Political Development.** 3 hrs. A comparative analysis of political change and modernization.
558. **Latin American Political and Economic Development.** 3 hrs.
559. **Federalism.** 3 hrs. An analysis of the theory and practice of political systems which are organized along federal lines.
571. **Public Personnel Administration.** 3 hrs.
572. **Organization and Management.** 3 hrs.
573. **Public Policy.** 3 hrs.
574. **Government Budgetary Process.** 3 hrs. Facets of budgetary administration, emphasizing federal and municipal budgets, theory and process.
580. **United States Constitutional Law.** hrs.
581. **The American Judicial Process.** 3 hrs.
582. **Comparative Judicial Politics.** 3 hrs. Prerequisite: PS 580 or PS 581 or consent of instructor.
584. **Administrative Law.** 3 hrs. An introduction to the field of administrative law including the analysis of substantive law which administrative agencies produce as well as the body of requirements that control administrative activities and processes.
585. **International Law.** 3 hrs.
589. **U.S. Supreme Court and Civil Liberties.** 3 hrs. An analysis of the role of the U.S. Supreme Court in protecting individual rights. Primary focus is on litigation involving provisions of the Bill of Rights.
691. **Research in Political Science.** 1-9 hrs.
692. **Special Problems.** 1-3 hrs. arr. The student works individually on a paper in political science under the supervision of a graduate faculty member.
693. **Internship in Political Science.** Hrs. arr. Departmental approval required. Student will work with an employer acting in the public sector in order to form practical experience in political and public affairs.
697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
698. **Thesis.** 1-6 hrs. for a total of 6 hrs.
700. **Seminar in U.S. Government.** 3 hrs. May be taken twice for credit. Prerequisite: Course in American national, state, and local government or consent of instructor.
710. **Readings Seminar in Political Science.** 3 hrs. A study of political science literature emphasizing interpretation and criticism.

720. Scope and Methods. 3 hrs. A survey of the scope of political science and of the tools and methods utilized in the discipline.

721. Seminar in Political Theory. 3 hrs. May be taken twice for credit.

723. Communist Ideology. 3 hrs. A critical study of materials from the basic writings of Communist thinkers: Marx, Lenin, Stalin, and with attention to modification made from period to period.

730. Seminar in U.S. Foreign Relations. 3 hrs. May be taken twice for credit. Prerequisite: Another course in U.S. foreign policy or history of U.S. foreign policy or permission of instructor. A survey of current United State foreign policies and problems.

731. Seminar in International Relations. 3 hrs. May be taken twice for credit. An intensive survey and analysis of the methodology, literature, and substance of the process of trans-state politics.

750. Seminar in Comparative Government and Politics. 3 hrs. May be taken twice for credit. Prerequisite: One or more courses in comparative government or permission of the instructor. A research-type course in which each student will make an intensive study of the political institutions of one country, or of a group of countries having similar governments.

751. Seminar in Latin America. 3 hrs. May be taken twice for credit. Prerequisite: Two Latin American political science or history courses at the 500 level or permission of the instructor. A research-type course in which each student will make an intensive inquiry into Latin American governments and politics.

770. Seminar in Public Administration. 3 hrs. May be taken twice for credit.

781. Seminar in Public Law. 3 hrs. May be taken twice for credit. Prerequisite: A course in constitutional law or consent of the instructor. A research course in which the students examine in depth various aspects of the judicial system and its relationship to other elements in the political process.

791. Research in Political Science. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 1-3 hrs.

793. Advanced Seminar in British Politics. 3-6 hrs. A seminar conducted in Great Britain under the auspices of the Anglo-American Institute.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

POLYMER SCIENCE (PSC-370)

(Please see FORENSIC SCIENCE-FSC-375)

512. Introduction to Macromolecules. 3 hrs. An introduction to the chemistry and physics of natural and synthetic high polymers.

570. Surface Coatings. 4 hrs. Study of the physical and chemical properties of the pigments, binders, solvents, and additives employed in surface coatings formulations, paint formulation, dispersion techniques, surface preparation, paint testing, non-polluting application techniques, and surface coatings formulations analysis.

570-L. Laboratory for PSC 570. 1 hr.

580. Polymer Kinetics and Reactor Design. 3 hrs. Introduction to polymerization kinetics and reactor design.

691. Research in Polymer Science. 1-9 hrs.

697. Independent Study and Research. 1-9 hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

701, 702. Advanced Polymer Science. 4 hrs., 5 hrs. An indepth study of polymer forming reactions, their scope and limitation(s). Relationships between molecular weight, polymer structure, and physical properties of polymers are established.

710. Advanced Physical Polymer Science I. 5 hrs. To include such topics as light scattering, end group analysis, osmometry, polymer fractionation, NMR, I.R., U.V., and visible spectroscopy, thermoanalytical evaluation and mass spectrometry.

711. Advanced Physical Polymer Science II. 4 hrs. A study of polymer chain conformation, macromolecular solutions, molecular weight distribution, morphology, rheology, structure-property relationships, and kinetics of addition-, condensation-, and co-polymerization.

720, 721. Polymer Techniques I, II. 2 hrs., 2 hrs. Laboratory methods of polymer synthesis, structural determination, and characterization.

720-L, 721-L. Laboratory for PSC 720, 721. 1 hr., 1 hr.

732. Copolymerization. 3 hrs. Prerequisite: Permission of instructor. Methods of controlling copolymer compositions, characterization, and utilization of copolymer compositions.

770, 771. Organic Coatings. 3 hrs., 3 hrs. A systematic study of the science of surface coatings.

780, 781. Selected Topics. 3 hrs., 3 hrs. To include a survey of such topics as thermally stable polymers, silicone elastomers, emulsion polymers, controlled biocide release from polymers and water-soluble high molecular weight polymers.

789. Polymer Science Seminar. 1-4 hrs.

791. Research. Hrs. arr. 1-9 hrs.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

801. Structure and Elasticity of Polymer Networks. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Study of the structure, elasticity and mechanical properties of polymer networks.

802. Polymer Melt and Solution Rheology. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Study of the Newtonian and non-Newtonian flow behavior of polymer melts and solutions.

803. Block and Graft Copolymers. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Study of structure, synthetic methods and properties of block, random and graft copolymers.

804. Naturally Occurring Polymers. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Study of the structure-property relationships of naturally occurring polymers, including polysaccharides, proteins, and nucleic acids.

805. Surface Coatings. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Scientific principles underlying surface coatings science are studied in depth.

806. Industrial Monomer and Polymer Science. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Industrial monomer and polymer science.

807. Testing of Polymers. 2 hrs. Prerequisites: PSC 702 and 711, or permission of instructor. Testing of polymers: adhesives, coatings, fibers, plastics, and elastomers.

808. Polymer Processing Principles. Prerequisites: PSC 702 and 711, or permission of instructor. Quantitative descriptions of extrusion, injection molding, rotational molding.

809. Morphology of Oriented Polymers. 2 hrs. Prerequisites: PSC 710, 711. Advanced polymer morphology.

810. Physical Properties of Macromolecular Solids. 2 hrs. Prerequisites: PSC 710 and 711, or permission of instructor. Advanced study of glassy and crystalline physical state of macromolecular solids emphasizing the influence of morphological structure.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

PSYCHOLOGY (PSY-175)

518. History and Systems of Psychology. 3 hrs. Prerequisite: Permission of the instructor. Review of the history of psychology and intensive study of current systems of psychology.

520. Sensation and Perception. 3 hrs. Prerequisite: PSY 320. A survey of sensory and perceptual processes with emphasis on the visual system.

522. Psychology of Learning. 3 hrs. Prerequisite: PSY 320. Basic problems, theories, and research in the areas of human and animal learning.

524. Animal Behavior. 3 hrs. Prerequisite: PSY 320. The study of animal behavior with special emphasis on the comparison of psychological processes along the phylogenetic scale.

526. Physiological Psychology. 3 hrs. Prerequisite: PSY 110. Relationship between physiological functions and behavior.

536. Abnormal Psychology. 3 hrs. Prerequisite: Permission of the instructor. Study of the major psychoses, and psychoneuroses, and mental deficiency.

550. Social Psychology. 3 hrs. Prerequisite: PSY 110. Study of the individual in group situations, and the influence of the social environment of his behavior and development.

551. Industrial Psychology. 3 hrs. Prerequisite: PSY 110. Applications of psychological principles and methods to problems of industry.

555. Psychology of Personality. 3 hrs. A study of the factors involved in the development of the mature personality.

556. Psychology of Aging and Death. 3 hrs. Study of problems and attitudes concerning aging and death.

562. Psychological Measurement. 3 hrs. Prerequisite: PSY 110 and 360 or equivalent. Theory, problems, and techniques of psychological measurement.

597. Interdisciplinary Seminar in Developmental Disabilities.. 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

620. **Advanced Data Analysis.** 3 hrs. Critical evaluation of and use of a variety of analytic techniques.

691. **Research in Psychology.** 1-9 hrs.

692. **Special Problems I, II, III.** 1-3 hrs. Limit of nine semester hours.

694. **Seminar in Problems in Contemporary Psychology I, II, III.** 1 hr. Limit of three semester hours.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students not in residence but actively working on a thesis and consulting with the major professor or using University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

710. **Philosophy of Science.** 3 hrs. A study of scientific methodology, theory, construction, and system building in modern psychology.

720. **Learning and Motivation I.** 3 hrs. Basic concepts, problems, and research methodology in the studying of learning and motivation.

721. **Learning and Motivation II.** 3 hrs. An intensive study of the role of contemporary theories of learning and motivation in current research.

722. **Experimental Design.** 3 hrs. A study of the rationale underlying the selection of appropriate design for experimental work and the analysis and interpretation of results.

723. **Comparative Psychology.** 3 hrs. An examination of methodology employed in animal research, and results of experimentation in the area of animal behavior.

724. **Physiological Psychology.** 3 hrs. Study of neurophysiological mechanisms in behavior and related problems.

725. **Motivation.** 3 hrs. Prerequisite: EPY 720 or EPY 721. A study of the current theories and research in the area of human and animal motivation.

726. **Perception.** 3 hrs. Prerequisite: Permission of the instructor. The development and nature of human perception.

727. **Research Evaluation in the Behavioral Sciences.** 3 hrs. Seeks to develop skill in evaluating the methodological soundness and usefulness of behavioral science research.

728. **Advanced Experimental Psychology I, II, III.** 3-9 hrs. For graduate students who wish to conduct publishable research not a part of a graduate thesis. Limit of 9 semester hours.

733. **Psychological Externship.** 1-3 hrs. Open only to psychology majors. Supervised clinical or research experience in community and hospital settings. Limit of 15 semester hours.

734. **Principles of Behavior Modification.** 3 hrs. Prerequisite: Permission of instructor. Study of the principles of behavioral change and the evaluation of clinical research in behavior modification.

735. **Clinical Psychology.** 3 hrs. Prerequisite: Permission of the instructor. Survey course to acquaint the student with the field of clinical psychology, personality diagnosis, psychotherapeutic techniques, and research.

736. Pre-Practicum in Clinical Psychology. 1-3 hrs. Prerequisite: PSY 738, 787, or 788 and permission of the instructor. Open only to psychology majors planning to enter the clinical field.

737. Administration, Supervision, and Consultation in Psychology. 3 hrs. Prerequisite: Permission of the instructor. Required for clinical doctoral students. Techniques of administration, supervision, and consultation in a mental health setting.

738. Introduction to Personality Assessment. 1-3 hrs. Prerequisite: Permission of instructor. The use of various psychological tools, including objectives and objective devices.

739. Personality Assessment. 3 hrs. Prerequisites: PSY 738 and permission of instructor. The selection, administration, and interpretation of tests used in assessment of personality.

742. Seminar in Case Studies. 3 hrs. Prerequisite: Permission of the instructor and 9 hours of psychological testing courses.

750. Advanced Social Psychology. 3 hrs. Examination of contemporary theory and research of group influence on the individual.

751. Personnel and Industrial Psychology. 3 hrs. Intensive study of selected problems in industrial and personnel psychology.

752. Management Training and Development. 3 hrs. Study of the principles and techniques of management appraisal and training.

755. Personality. 3 hrs. Consideration of the major theories of personality, and research on the development and measurement of personality.

762. Research Methods: Descriptive Statistical Methods. 3 hrs. Prerequisite: PSY 360 or permission of the instructor. Hypothesis testing, correlation, multiple correlation and regression.

763. Research Methods: Significance Tests and Experimental Design. 3 hrs. Prerequisite: PSY 762 or permission of the instructor. Experimental design and analysis of variance.

764. Factor Analysis. 3 hrs. Methods of multivariate analysis, emphasizing methods of factor analysis and cluster analysis.

768. Non-Discriminatory Evaluation. 3 hrs. Theory and use of non-discriminatory evaluation procedures.

777. Psychopathology of Childhood. 3 hrs. An in-depth survey of the major types of behavior disorders of children.

778. Experimental Child Psychology. 3 hrs. Prerequisite: Permission of the instructor. An intensive study of theory, methodology, and research in child psychology.

779. Seminar in Developmental Psychology. 3 hrs. Prerequisite: Permission of the instructor. Consideration of specific contemporary problems and issues in developmental psychology. May be taken for a total of 9 semester hours.

780. Advanced Psychopathology. 3 hrs. Prerequisite: Permission of the instructor. Intensive study of personality dynamics as related to aberrant behavior, with emphasis on current research.

782. Clinical Psychology Practicum I, II, III. 3 hrs. Prerequisite: Permission of the instructor. Open only to psychology majors at the doctoral level. Psychodiagnostics, selection and application of appropriate therapeutic programs.

784. Systems of Psychotherapy. 3 hrs. Prerequisite: Permission of the instructor. An analysis of the theories and techniques of current systems of psychotherapy.

785. Group Dynamics. 3 hrs. A study of the theory and practice of group dynamics and group therapy, with emphasis on clinical groups.

787. Individual Psychological Testing: Stanford-Binet. 3 hrs. Prerequisite: Approval of department chairman or instructor. Supervised study of the use of the Stanford-Binet, Form L-M.

788. Individual Psychological Testing: Wechsler Scales. 3 hrs. Prerequisite: Approval of departmental head or instructor. Supervised study of the use of the Wechsler Scales.

791. Research in Psychology. 1-9 hrs. Prerequisite: Permission of the instructor.

796. Internship in Clinical Psychology. 4 hrs. Credit may not be applied toward a graduate degree. Prerequisite: Successful completion of PSY 782 and approval of the clinical faculty. Required calendar year of internship in mental health setting approved by the American Psychological Association.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree Student not in residence but actively working on a dissertation and consulting with the major professor or using University facilities must enroll in this course.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

RADIO-TELEVISION-FILM (RTF220)

See Course Listing Under Communication, page 169.

REAL ESTATE AND INSURANCE (REI-617)

534. Income Property Valuation. 3 hrs. Emphasis on the income approach to real estate valuation.

570. Real Estate Brokerage. 3 hrs. Prerequisites: REI 330 and permission of instructor. An experiential course concerning the management of brokerage operations and the listing and merchandising of real property.

640. Seminar in Urban Land Analysis. 3 hrs. Economic, social, and political influences on housing, location, and land use are discussed.

650. Real Estate Investment Analysis. 3 hrs. Deals with theoretical, analytical and practical framework in which real estate investment decisions are made.

RECREATION (REC-735)

510. Physical Education and Recreation for the Educationally Disabled and Other Behavioral Disorders. 3 hrs. The development of concepts and knowledge of Physical Education and Recreation Programs for L.S., M.R., and E.D.

511. Physical Education and Recreation for the Crippled and Other Health Impaired. 3 hrs. The development of concepts knowledge for programs for C.P. and P.H. individuals.

512. Sports Programs for the Disabled. 3 hrs. Competitive sports programming and special techniques for preparing disabled individuals for participation.

513. Organization and Administration of Public Recreation. 3 hrs. The organization and administration of public recreation agencies and their policies.

515. Business Procedures for Parks and Recreation. 3 hrs. Specific business procedures and administrative policies and forms related to recreation-related agencies.

517. Park Management and Operation. 3 hrs. The operational techniques and managerial principles necessary for the efficient administration of parks and outdoor facilities.

522. Youth Service Programs. 3 hrs. The responsibilities, relationships, organization, administration, and activities of youth agencies.

524. Community Playgrounds Programs and Operation. 3 hrs. Administration, programs, and operation of playgrounds and community centers.

526. Community-School Recreation. 3 hrs. Overview of community recreation with particular emphasis on the inter-relationships and involvement of the public schools.

532. Environmental Aspects of Recreation. 3 hrs. Study of the inter-relationships between recreation and available resources.

534. Park Development and Design. 3 hrs. Basic application of design and planning concepts to outdoor recreation areas and facilities.

536. Park and Recreational Planning. 3 hrs. The fundamental principles and methodologies necessary for dealing with proper identification, allocation, and use of resources in recreational planning.

541. Resources Management and Policy. 3 hrs. Techniques, procedures, and policies affecting management of natural resources. Emphasis given to proper land utilization, environmental protection, and user satisfaction.

543. Outdoor Education. 3 hrs. A study of outdoor education, specifically its philosophy, programs, methods, and resources.

547. Interpretation of Cultural and Natural Resources. 3 hrs. The interpretive process as applied to natural and cultural resources, with emphasis on educational/recreational aspects.

551. Therapeutic Recreation Programming. 3 hrs. Study of the organization, programming, and special conduct of recreational programs and activities in institutions.

552. Gerontology and Recreation for Later Years. 3 hrs. The aging process and the special recreational needs, problems, opportunities, and activities of older people.

590. Physical Education and Recreation for the Handicapped. 3 hrs. Designed to acquaint individuals with the theoretical aspects of and the practical application of physical education and recreation for the handicapped.

591. Recreation Education for Teachers. 3 hrs. Programs and benefits of recreation and leisure for the motivation of leaders who are serving or may serve in educating individuals of all ages.

592. Outdoor Recreation Seminar. 3 hrs. Practical and philosophical introduction to the use of outdoors, educational and community programs.

597. Interdisciplinary Seminar in Developmental Disabilities. 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

680. Research Techniques. 3 hrs. Discovery and recognition of problems, evaluation of problems and procedures, types and techniques of research.

691. Research. 1-9 hrs.

692. Special Problems. 1 hr.

694. Field Problems. 1-6 hrs. Prerequisite: Permission of department chairman. Practical experiences dealing with problem situations in the field and related institutional settings.

696. Practicum. 1-6 hrs. arr.

697. Independent Study and Research. Hrs. arr. No credit toward a degree. Students not in residence but who are actively working on a thesis and consulting with a major professor or using the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

701. Problems and Emerging Trends in Recreation. 3 hrs. Problems and emerging trends related to recreation with emphasis on problem solving and evaluation.

702. Research and Evaluation in Parks and Recreation. 3 hrs. Designed to develop knowledge and understanding relative to research methods most utilized in recreation.

703. Philosophical Foundations of Recreation. 3 hrs. Prevailing concepts, theories, and professional philosophies affecting recreation.

704. Special Field Studies in Recreation. 3 hrs. Encompasses the application of various theories to realistic field situations and pertinent areas of concern.

740. Forest Recreation. 3 hrs. The background, evolution, and contemporary practices in forest-related outdoor areas, facilities, and programs.

790. Seminar in Recreation. 3 hrs. A seminar course pertaining to selected current professional topics in all areas of recreational study.

RELIGION (REL-288)

ANT 512. Mythology and Folklore. (May be taken for credit as a religion course.)

ANT 534. Primitive Religion. (May be taken for credit as a religion course.)

535. Religions of the Near East. 3 hrs. A study of Judaism, Zoroastrian, and Islamic literature and thought.

536. Mysticism. 3 hrs. A study of the major themes and issues of religious mysticism-East and West.

537. Religions of the Far East. 3 hrs. A study of Hinduism, Buddhism, Taoism, Confucianism, and Shintoism.

590. Contemporary Religious Problems. 3 hrs. An examination of specific problems within the broad spectrum of contemporary religious concern.

RESEARCH AND FOUNDATIONS (REF-125)

+ 516. Utilization of Audiovisual Media and Equipment. 3 hrs.

525. Instructional Styles and Models in Media Programs. 3 hrs.

526. Film and Television in Media Programs. 3 hrs.

536. Designing Educational Systems for Individualized Instruction. 3 hrs. Translation of instructional specifications into prototype systems.

590. Instructional Television Workshop. 3 hrs.

591. School Media Center Administration Workshop. 3 hrs.

601. Research: Its Introduction and Methodology. 3 hrs.

602. Introduction to Educational Statistics. 3 hrs. Basic concepts and computations in descriptive statistics. Introduction to sampling procedures and inferential processes in educational research.

604. Foundations in American Education. 3 hrs. A brief survey of the philosophical, psychological, sociological, and historical foundations of American education.

605. Cultural Influences on American Education and Society. 3 hrs. A study of European educational systems.

607. Basic Course in Curriculum Development. 3 hrs. An examination of factors influencing planning and procedures for structuring and evaluating curricular experiences.

609. Administration of Media Centers. 3 hrs.

615. Student Discipline in the Schools. 3 hrs. Presentation of general principles, techniques, procedures, and legal aspects of discipline.

+ **616. Instructional Graphics.** 3 hrs.

618. Instructional Photography. 3 hrs.

620. Foundations of Instructional Technology. 3 hrs.

621. Selection and Organization of Media Resources. 3 hrs.

+ **622. Design and Production of Media Materials.** 3 hrs.

+ **623. Advanced Media Productions Techniques.** 3 hrs.

625. Instructional Video and Film Production. 3 hrs.

632. Measuring Results in Education. 3 hrs. Emphasis on selecting and constructing various types of achievement tests and statistical interpretation of data.

644. Instructional Development I. 3 hrs. Prerequisite: REF 516 or permission of the instructor. Survey of various instructional development models for the development, revision, or revitalization of educational programs.

645. Computers in Education. 3 hrs. Applications of computer technology to instructional, information, and administrative programs from the user's point of view.

660. Economic Education for Teachers. 3 hrs. Emphasis on in-depth understanding of our economic system and intergration of economic concepts into the social studies.

680. Direction and Supervision of Student Teaching. 3 hrs. Designed to guide supervising teachers in orienting and involving student teachers.

692. Special Problems. 1-3 hrs.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

701. Analysis of Teaching Behavior. 3 hrs. Designed to analyze teacher behavior to determine competency, including interaction analysis and microteaching skills.

709. Social Foundations of Education. 3 hrs. A study of contrasting motivations and values of various cultural groups and their implications for education.

712. Computer Applications in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Skills development course in computer analysis of behavioral science data, systems analysis, financial, and personnel accounting procedures.

718. Practicum in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Application of appropriate research models, structure of research reports, critique of published research and of student's research problem.

720. Measurement in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Survey of the theory of measurement including true score theory, reliability, validity, item analysis, and item selection techniques.

740. Programmed Instruction. 3 hrs. Theories and techniques in designing, producing, and evaluating programmed instructional materials.

742. Research in Instructional Systems Technology. 3 hrs. Research in problems of formulating objectives, analyzing audiences, using media, and evaluating education outcomes.

761. Educational Research: Significance Tests and Statistical Methods for Experimental Design. 3 hrs. Prerequisite: REF 602 recommended. Probability theory and theoretical distributions in experimental design. Techniques including tests, simple and complex analysis of variance, analysis of co-variance.

762. Educational Research: Advanced Regression Methods. 3 hrs. Prerequisite: REF 761. Correlation and regression theory. Techniques associated with bivariate, partial, and multiple correlation and applied multiple linear regression.

770. Evaluation Design and Methodology. 3 hrs. The principles of evaluation. Involvement in a practical evaluation problem employing measurement techniques and statistical methodology.

791. Field Problems in Educational Research. 1-12 hrs. Prerequisite: Approval of major professor and Educational Research Staff.

792. Special Problems in Educational Research I, II, III. 1 hr. each. Prerequisite: Approval of major professor and Educational Research Staff. Application of specific research procedures in the development of skills in various types of research. The preparation of a scholarly paper is required.

794. Field Problems. 3 hrs.

798. Specialist Thesis. 3 hrs. Selection and development of a practical educational research problem for the specialist's degree. A scholarly research paper is required.

810. Design and Methodology in Institutional Research. 3 hrs. REF 601, 761, 762. Practical application of institutional research design and methodology emphasizing computer utilization and field work.

816. History of Public Education in the United States. 3 hrs. A critical study of the evolution of public education with emphasis on critical issues.

818. Comparative Philosophies of Education. 3 hrs. A critical examination of theoretical concepts of leading modern philosophers and their implications for education.

820. Comparative Education. 3 hrs. Survey of educational patterns of selected countries.

824. Research Design in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Experimental and quasi experimental designs in educational research. Emphasis upon utilization of design principle and appropriate statistical treatment.

830. Multivariate Analysis in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Theory and application of multiple regression and discriminant analysis, canonical correlation, multivariate analysis of variance and covariance.

893. Advanced Educational Research. 3 hrs. Seminar in types and problems of educational research, observation and data collection methods, and standards of reporting educational research.

SCIENCE EDUCATION (SCE-330)

532. Science for Elementary Teachers. 3 hrs. Prerequisites: 12 semester hours of science. Designed to provide experience in presenting scientific principles to the elementary school child.

535. Marine Science for Elementary Teachers. 3 hrs. Prerequisite: Permission of instructor. Designed to acquaint teachers with marine science concepts.

541. Methods of Teaching the Metric System. 3 hrs. Lectures and exercises in measurements using the International System of Units.

553. Earth and Environmental Science for Intermediate School Teachers. 3 hrs. Prerequisite: Permission of instructor. To familiarize teachers with the materials, methods, and techniques of earth and environmental science.

554. Biological Sciences for Intermediate School Teachers. 3 hrs. An examination of the subject matter, techniques, and methods of teaching the life sciences.

555. Physical Science for Intermediate School Teachers. 3 hrs. An examination of the subject matter, techniques, and methods for teaching the physical sciences.

556. Techniques in Marine Science Education. 3 hrs. Prerequisite: Permission of instructor. Designed to acquaint teachers with the marine resources of the Mississippi Coastal Zone.

557. Marine Science for Teachers. 3 hrs. Prerequisite: Permission of instructor. Emphasis will be placed on measurements and analysis of the marine habitat and ecological relationships.

570. Biology for Secondary Teachers. 3 hrs. Prerequisite: Biology background. A survey of the philosophy, techniques, and methods of teaching biology.

571. Chemistry for Secondary Teachers—Methods and Techniques. 3 hrs. Prerequisite: Permission of instructor. Course designed to familiarize chemistry teachers with materials, methods, and techniques of teaching chemistry.

572. Physics for Secondary Teachers—Methods and Techniques. 3 hrs. Prerequisite: Permission of instructor.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

700. Science Curriculum in the Public Schools. 3 hrs. Prerequisite: SCE 703. An examination of elementary and secondary science curricula.

701. Problems in Science Teaching. 3 hrs. Prerequisite: Permission of instructor. Study of problems related to curriculum, methodology, activities, professionalism, and evaluation in science teaching.

702. Field Techniques of Demonstrating and Experimenting with Scientific Principles. 3 hrs. For science teachers considering fundamental aspects of biology, chemistry, geology, and physics.

703. Foundations of Science Education. 3 hrs. Prerequisite: Permission of instructor. Study of philosophical premises, the nature of science, psychological and pedagogical theories.

730. Physics for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. Principles and general ideas that can be directly applied to the elementary grades.

731. Chemistry for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. Chemical principles that represent the changes in chemistry that have taken place over the last two decades.

732. Biology for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. A study of content, techniques, and methods of teaching life science concepts.

733. Earth Science for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. A study of techniques and methods of teaching earth science concepts.

789. Seminar. 1 hr. Discussion of current trends and practices in science education.

791. Research in Science Education. 1-9 hrs.

792. Special Problems. 1-3 hrs. arr.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Student who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Research Problem. 3 hrs.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

SOCIAL WORK (SWK-020)

Foundation

601. Human Behavior and Social Environment I. 3 hrs. Systems theories applied to analysis of individual, family, group, and organizational systems and interaction with their environments.

602. Human Behavior and Social Environment II. 3 hrs. Comparative theories of human behavior and life cycle development.

605. Social Welfare Policy I. 3 hrs. History of social work and social welfare; values which influenced policy; formulation of policy.

606. Social Welfare Policy II. 3 hrs. Social welfare planning and social policy analysis, with special concern for policies affecting rural and small communities.

608. Social Work Generalist Practice I. 3 hrs. Systemic and problem-solving approaches to social work practice with individuals, families, organizations, and groups; integrative framework for knowledge, values and skills.

609. Social Work Generalist Practice II. 3 hrs. Differential practice roles and communication processes; specific attention to resource development, linkage, and utilization.

617. Social Work Research I. 3 hrs. Fundamentals of knowledge development, scientific thinking, and theory-building in social work.

634. Social Work Practice in a Diverse Society. 3 hrs. Comparative cross-cultural theories and concepts related to ethnic-minority groups and alternative life styles.

635. Social Service Management and Administration. 3 hrs. Structure and leadership of social welfare programs; theory of organizations and bureaucracy.

637. Social Work Research II. 3 hrs. Prerequisite: SWK 617. Comparative social work research methodologies with special attention to program evaluation.

641. Field Education. 8-9 hrs. A practicum designed to integrate and enhance values, knowledge, and skills at both foundation and advanced levels. Includes integrative seminar.

Advanced Practice and Electives

650. Social Work Practice with Families I. 2 hrs. Theory and skills for intervention with dysfunctional behaviors in families.

651. Time-Limited Intervention. 2 hrs. Techniques of task-centered intervention and crisis intervention in social work practice.

652. Psychosocial Aspects of Functioning in Middle and Late Life. 2 hrs. Examination of potentially dysfunctional major events and changes in middle and late life; social service and direct practice intervention.

654. Social Work Practice with Older Adults in Social Service Systems. 2 hrs. Practice related to social aspects of prevention, treatment, and resource development.

655. Social Work Practice with Children and Youth. 2 hrs. Intervention with children and youth experiencing psychosocial adjustment problems in various community and institutional settings.

658. Advanced Interventive Methods. 3 hrs. Social work intervention focused on cognition, affect, behavior and consequences with reference to individuals, families, and groups.

663. Consultation and Supervision. 2 hrs. Concepts and skills related to educational and facilitating functions of consultants and supervisors in service delivery organizations.

665. Social Work and the Law. 2 hrs. An exploration of the interrelationships between social work and the law.

666. Community Organization and Development. 3 hrs. Theories and techniques of community organization and development with special attention to practice in the rural and small community.

668. Group Treatment. 2 hrs. Concepts and skills related to group work practice, with special focus on group formation, assessment, intervention assessment, intervention strategies, and termination.

681. Death and Dying. 2 hrs. Viewpoints of death and techniques of social intervention with the dying person.

686. Social Work Practice in Mental Health and Retardation. 2 hrs. Problems, policy, services, and evaluation in mental health/retardation. Permission of instructor required.

689. Social Work Practice in Health Settings. 2 hrs. Medical data, terminology, social work skills as practiced in health settings (hospitals, etc.).

691. Research Practicum. 3 hrs. Prerequisites: SWK 618 and 637. Two semester empirical research project; requires a research proposal, gathering data, and writing a research paper.

692. Special Problems. 1-6 hrs. Problem study to develop knowledge and facility in an area of student interest. Paper and/or project required.

693. Social Work Practice with Families II. 2 hrs. Prerequisite: SWK 650. Neglect and abuse; intervention with neglecting or abusing families; social policies affecting families.

694. Management and Administrative Practice. 2 hrs. Practical approaches to administrative practice. Methods of organizational goal formulation, planning, budgeting and development.

699. Social Planning. 2 hrs. Focus upon the parameters, functions, techniques and processes of social planning.

SOCIOLOGY (SOC-292)

521. Special Sociological Topics. 3 hrs. Variable content; can be repeated three times in separate topical offerings.

523. Sociology of Health. 3 hrs. An analysis of the field of health and health care delivery from a sociological perspective.

524. Social Gerontology. 3 hrs. A survey of demographic, social, and cultural aspects of aging with particular emphasis upon American society and the types of problems encountered by older persons.

526. Sociology of Education. 3 hrs. Sociological analysis of education in America; schools as social organizations, community institutions, and agents of socialization.

544. Juvenile Delinquency. 3 hrs. A study of causes and the nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs.

550. Social Psychology. 3 hrs. A treatment of the role of the social group and the cultural heritage in the development and functioning of the human personality.

560. Quantitative Methods. 3 hrs. A survey of quantitative data analysis techniques used in empirical social investigations.

561. Population. 3 hrs. Prerequisite: SOC 460. An introduction to demography, analyzing significant changes in population composition.

562. Methods of Social Research . 3 hrs. Research designs, types of research, methods of observation and data collection, specialized techniques.

571. Social Institutions. 3 hrs. A detailed study of major American social institutions, their functions, interrelationships, and significant trends.

575. Social Stratification. 3 hrs. Research and theory in social differentiation, class, status, power, and mobility. Analysis of inequality and the effects of socioeconomic status upon behavior and social organization.

580. Advanced General Sociology. 3 hrs. An advanced course in general sociology giving expanded treatment to the basic sociological concepts and subject matter areas.

581. History of Social Thought. 3 hrs. An examination of early social thought, tracing the development of western thought and ideas from Hammurabi to Comte.

582. Sociological Theory. 3 hrs. A survey of the growth and development of sociological theory from Comte to the present.

620. American Community Life. 3 hrs. A study of the American community life and its social and cultural patterns.

640. Social Control and Social Change. 3 hrs. A study of the forms of social control. Independent research projects are reported to the class for discussion and evaluation.

670. Seminar in Sociological Theory. 3 hrs. A detailed study of the content and influence of selected major contributors to sociological theory.

671. Social Institutions. 3 hrs. An advanced course in social institutions. A study of the structure and function of the five basic institutions. Each student will select one for intensive study.

677. Seminar in Demography. 3 hrs. Designed to develop understanding of data and trends in world and national population and to provide basis for assessing demographic implications of social and scientific change.

681. Departmental Seminar I. 1 hr.

682. Departmental Seminar II. 1 hr.

683. Seminar III. 1 hr. arr.

692. Special Study Projects in Sociology. 1-6 hrs. (Tutorial). Special projects in reading, survey, or research in sociology. Work will be under the direction of graduate faculty.

697. Independent Study and Research. Hrs. arr. No credit toward a degree. Students not in residence but who are actively working on a thesis and consulting with a major professor or using the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit will not be recorded until thesis is accepted by the major professor.

792. Special Study Projects in Sociology. 1-6 hrs. for a total of 6 hrs. (above the master's level). Special projects in reading, survey, or research in sociology. Work will be under the direction of graduate faculty.

SPECIAL EDUCATION (SPE-190)

500. The Psychology and Education of the Exceptional Child. 3 hrs. An introduction to exceptional populations and procedures and policies relating to their education and citizenship.

511. Language Development for the Handicapped. 3 hrs. An introduction to Language processes and common deficits related to the handicapped.

520. Structure and Function of the Eye. 3 hrs. Identification, function, and care of the eye as it relates to the visually handicapped.

521. Methods and Materials in Teaching Visually Handicapped. 3 hrs. A study of practices commonly used in education programs, including Braille, space orientation, special materials, and organization.

522. Braille. 3 hrs. A skill course in communication through Type 2 Braille.

523. Teaching of Braille. 3 hrs. Prerequisite: SPE 422 or equivalent. Developing methods for teaching Braille to visually handicapped to include reading, mathematics, and production abilities.

524. Mobility Training for the Visually Handicapped. 3 hrs. An introduction to mobility, movement, and spatial awareness for the visually handicapped.

525. Psychology and Education of the Visually Handicapped. 3 hrs. A study of social-emotional and cognitive learning factors of the visually handicapped.

527. Physically Handicapped and Other Health Impaired. 3 hrs. A study of major handicapping conditions associated with physical and health impairments and their educational implications.

528. Methods for Teaching the Physically Handicapped and Other Health Impaired. 3 hrs. Educational programs, counseling techniques, and least restrictive alternative placements for the physically handicapped.

529. Curricula and Mobility Training for the Physically Handicapped. 3 hrs. General curricula development and specific demonstration and simulations in mobility training.

531. Individual Programming for Educationally Handicapped: Pre-Academic Levels. 3 hrs. Methods and materials and individual educational planning for pre-academic level retarded, specific learning disabled and mildly emotionally disturbed.

532. Individual Programming for Educationally Handicapped: Elementary Levels. 3 hrs. Methods and materials and individual educational planning for elementary level retarded, specific learning disabled and mildly emotionally disturbed.

533. Individual Programming for Educationally Handicapped: Secondary and Adult Levels. 3 hrs. Methods and materials and individual educational planning for secondary retardation, specific learning disabilities and mild emotionally disturbed.

565. Characteristics of the Gifted and Talented. 3 hrs. Study of gifted populations to include characteristics, learning modes, and assessment procedures.

566. Basic Methods and Materials in Gifted/Talented Education. 3 hrs. Curricula building activities for teachers in programs for the gifted.

590. Workshop in Special Education. 3 hrs.

597. Interdisciplinary Seminar in Developmental Disabilities. 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

630. Advanced Studies in Specific Learning Disabilities. 3 hrs. A study of decoding, cognitive, and encoding deficits in handicapped learning disabled pupils.

631. Advanced Curricula for Specific Learning Disabilities: Elementary. 3 hrs. Methods and materials for instruction of elementary level children with specific learning disabilities.

632. Advanced Curricula for Specific Learning Disabilities: Secondary. 3 hrs. Methods and materials for instruction of secondary level individuals with specific learning disabilities.

634. Advanced Practicum in Specific Learning Disabilities. 3-6 hrs. Professional work with pupils and/or specified activities.

644. Advanced Practicum in Mental Retardation. 3-6 hrs. Professional work with pupils and/or specific activities.

645. Programming for the Severe, Profound, and Multiply Handicapped. 3 hrs. Curricula development activities with extreme learning problems.

654. Practicum in Emotionally Handicapped. 3 hrs. Professional work with pupils and/or specified activities.

671. Organizational and Legal Procedures for Special Education. 3 hrs. Organization of units for the exceptional child and legal procedures relating to programs.

680. Advanced Practicum in Special Education. 3-9 hrs. Practicum for master's degree students unique to individual program plans. The practicum will be either in public school, institution, or clinical setting.

691. Research in Special Education. 1-9 hrs.

692. Special Problems. 1 hr. Examination of medical, sociological, biological, psychological, and institutional aspects of exceptional children.

694. Field Problems. 3 hrs.

700. Issues in Special Education. 1 hr. A study of current theories, models, programs, and reports in special education. Open to non-majors.

701. Problems in Special Education Research Design. 3 hrs. Primary emphasis is placed for graduate degree candidates to develop a prospectus for a field study or dissertation; includes research and design procedures.

704. Perceptual-Motor Development for the Handicapped. 3 hrs. An investigation of perceptual motor behavior as it relates to child development.

709. Diagnostic Techniques for Exceptional Children. 3 hrs. Interpretation and application of measurement for exceptional children with emphasis on curriculum decision making. Open to non-majors.

740. Advanced Studies in Mental Retardation. 3 hrs. Problems of diagnosis and treatment. Investigation of current research, curricula design, and social emotional parameters are considered.

741. Vocational Education in Mental Retardation. 3 hrs.

743. Advanced Curriculum Studies for the Mentally Retarded. 3 hrs. Study of different approaches to curriculum development, with emphasis on materials and goals for teaching mentally retarded.

750. The Psychology and Education of the Emotionally Disturbed. 3 hrs. This course explores the characteristic of deviant behavior and its causation.

751. Advanced Methods in Behavioral Management for the Handicapped. 3 hrs. This course explores educational programs for the disadvantaged, delinquent, migrant, and other socially deviant groups.

752. Basic Curriculum for the Emotionally Disturbed. 3 hrs. A course investigating programs, methods and materials in the education of the emotionally disturbed child; the role of the teacher in relation to team.

760. Methods and Materials in Teaching the Gifted. 3 hrs. A study of programs, curricula, models, and methodologies for the intellectually advanced.

761. Curricula Development for the Gifted. 3 hrs. Curricula writing, module development, and attentive modes of instruction for gifted pupils.

762. Programming for the Atypical Gifted. 3 hrs. Study of individuals who display diverse modes of high achievement and creativity.

764. Practicum Gifted. 3 hrs. Practicum for advanced students with gifted students in public school or clinical settings.

770. Administration and Supervision of Program for Exceptional Children. 3 hrs. Designed for educators and supervisors of programs for exceptional children; organization and administration of programs for exceptional children.

772. Internship in Special Education Administration. 1-6 hrs. To provide internship experience for specialist and doctoral students in Special Education Administration, institutions, state department.

791. Research in Special Education. 1-12 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Specialist Field Study. 1-6 hrs. Participation in activities of an organization involved in administering or teaching special education. This may be at the state or local level.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. **Specialist Thesis.** 3 hrs.

801. **Teacher Education in Special Education.** 3 hrs. Development of programs, courses of study, observation techniques, models, micro-teaching units, modules in higher education.

802. **Service Units and Public Relations in Special Education.** 3 hrs. Inservice training units, conference planning, grant writing, workshop, parent and national organizations.

803. **Program Evaluation and Funding in Special Education.** 3 hrs. Study of program accountability modes, grant writing, and sources.

880. **Internship in Teacher Education.** 1-6 hrs. Individual cases are tested by students and all available information is integrated for diagnostic and educational purposes.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

SPEECH AND HEARING SCIENCES (SHS-296)

501. **Language and Speech Development.** 3 hrs.

502. **Anatomy and Physiology of the Hearing Mechanism.** 3 hrs.

503. **Anatomy and Physiology of the Speech Mechanism.** 3 hrs.

510. **Methods and Program Design in Communicative Disorders.** 3 hrs.

512. **Diagnostic Procedures in Speech Pathology I.** 3 hrs. Prerequisites: SHS 211, 411.

513. **Voice Disorders.** 3 hrs. Prerequisites: SHS 211, 403.

514. **Stuttering and Related Problems.** 3 hrs. Prerequisite: SHS 211 or equivalent.

515. **Speech and Language Disorders of the Cerebral Palsied.** 3 hrs. Prerequisites: SHS 211 and SHS 403 or equivalents.

516. **Adult Aphasia and Related Problems.** 3 hrs. Prerequisites: SHS 211 and SHS 403 or equivalents.

517. **Speech and Language Disorders Related to Cleft Palate.** 3 hrs. Prerequisites: SHS 211 and SHS 403 or equivalents.

518. **Advanced Clinical Methods.** 3 hrs.

519. **Organic Speech Disorders.** 3 hrs.

520. **Middle Ear Measurement.** 3 hrs.

521. **Aural Rehabilitation.** 3 hrs. Prerequisite: SHS 221 or equivalent.

522. **Diagnostic/Prescriptive Teaching of the Hearing Impaired.** 3 hrs.

523. **Basic Sign Language.** 2 hrs. For the Non-Education of the Deaf Major.

524. **Methods of Communicating with the Hearing Impaired.** 3 hrs. For Education of the Deaf majors only; may be repeated once for credit.

525. **Psycho-Social Factors Associated with Hearing Impairment.** 3 hrs. Prerequisite: Consent of instructor.

526. **Secondary School Methods and Curriculum for Hearing Impaired Children.** 3 hrs. Prerequisites: SHS 433, 438.

527. **Anatomy, Physiology and Research in Speech, Hearing, and Language of the Hearing Impaired.** 3 hrs.

528. **Clinical Audiology I.** 3 hrs. Prerequisite: SHS 221.
530. **Speech Pathology and the Hearing Impaired Child.** 3 hrs. This course provides an understanding of language, speech, and learning problems of hearing impaired children and provides remedial strategies for use by speech pathologists.
531. **Language Disorders I: Assessment of Children with Language Disorders.** 3 hrs. Prerequisite: SHS 401 or equivalent.
532. **Language Disorders II: Habilitation of the Aphasic Child.** 3 hrs.
533. **Developing Language Skills with the Hearing Impaired.** 3 hrs.
534. **Learning Strategies for the Multiply-Handicapped Hearing Impaired Child.** 3 hrs. Prerequisites: EPY 374, SPE 400, SHS 433, 437 or permission of instructor.
535. **Developing Oral/Aural Communication in Hearing Impaired Children.** 3 hrs.
536. **Developing Reading in the Hearing Impaired.** 3 hrs. Prerequisite: SHS 433 or consent of instructor.
537. **Introduction of Education of the Hearing Impaired.** 3 hrs.
538. **Problems in Academic Subjects for the Hard-of-Hearing and Deaf.** 3 hrs. Prerequisites: SHS 433, SHS 434, and SHS 436.
539. **Education of Preschool Hearing Impaired Children.** 3 hrs. Prerequisite: SHS 221. Practicum required.
597. **Interdisciplinary Seminar in Developmental Disabilities.** 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.
601. **Designs in Research for Speech and Hearing.** 3 hrs.
602. **Current Topics in Speech Pathology.** 3 hrs.
612. **Neurophysiology of Speech and Languages.** 3 hrs. Prerequisite: Consent of instructor.
621. **Hearing Aids.** 3 hrs.
623. **Clinical Audiology II.** 3 hrs. Prerequisite: SHS 528 or consent of instructor.
625. **Audiological Instrumentation.** 3 hrs. Prerequisite: SHS 221 or equivalent.
626. **Pathologies of the Hearing Mechanisms.** 3 hrs. Prerequisites: SHS 221 and SHS 402 or equivalents.
633. **School Curricula for the Hearing Impaired.** 3 hrs. Prerequisites: SHS 433, 436, 437.
641. **Medical Diagnosis and Treatment of Speech and Hearing Pathologies.** 1-4 hrs. Prerequisite: Consent of instructor.
692. **Special Problems.** 1-6 hrs.
694. **Off Campus Practicum in Speech and Hearing Sciences.** 9 hrs.
695. **Student Teaching Off-Campus Practicum.** 9 hrs.
696. **Practicum in Speech and Hearing Science, Audiology, Language Disorders, or Speech Pathology.** Hrs. arr.
697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Student who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

- 698. **Thesis.** 1-6 hrs. for a total of 6 hrs.
- 701. **Seminar in Psychoacoustics.** 3 hrs.
- 702. **Seminar in Language Problems.** 3 hrs.
- 711. **Seminar in Aphasia and Related Disorders.** 3 hrs.
- 712. **Seminar in Articulation Disorders.** 3 hrs.
- 713. **Seminar in Cerebral Palsy.** 3 hrs.
- 714. **Seminar in Cleft Palate.** 3 hrs.
- 715. **Seminar in Clinical Counseling in Speech Pathology.** 3 hrs.
- 716. **Seminar in Stuttering and Related Disorders.** 3 hrs.
- 717. **Seminar in Voice Disorders.** 3 hrs.
- 718. **Seminar in Psychology of the Deaf and Speech Handicapped.** 3 hrs.
- 719. **Seminar in Problems and Procedures in Evaluating Children.** 3 hrs.
- 722. **Seminar in Pediatric Audiology.** 3 hrs.
- 723. **Seminar in Electrophysiological Audiometry.** 3 hrs.
- 724. **Seminar in Electroacoustic Measurements in Hearing.** 3 hrs.
- 725. **Seminar in Non-Organic Hearing Loss.** 3 hrs.
- 761. **Laboratory in Speech and Hearing Sciences.** 1-3 hrs.
- 763. **Laboratory in Speech Pathology.** 1-3 hrs.
- 764. **Laboratory in Language Disorders.** 1-3 hrs.
- 791. **Research in Speech and Hearing Science.** 1-12 hrs. Prerequisite: Approval of the major professor.
- 792. **Special Problems.** 3 hrs.
- 797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
- 898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

THEATRE AND DANCE (THE-685)

- 501. **Costume Design.** 3 hrs. Prerequisite: Permission of instructor. Costume design in theatrical production.
- 510. **Stage Sound Engineering.** 2 hrs. Principles and practice in stage sound engineering.
- 511. **Advanced Oral Interpretation.** 2 hrs. Special problems related to the oral interpretation of poetry and prose.
- 512. **Stage Lighting.** 3 hrs. Prerequisite: Permission of instructor. Theory and application of general and special lighting, color, instrumentation, and control.
- 514. **Creative Dramatics.** 3 hrs. Fundamentals of organizing and developing creative dramatics activities for preschool and elementary age school children.
- 515. **Fundamentals of Children's Theatre.** 3 hrs. Methods and techniques of producing plays for elementary age school children.
- 517. **Advanced Acting.** 3 hrs.
- 520. **Advanced Directing.** 3 hrs. Prerequisite: THE 320 or equivalent.
- 527. **Theatre History I.** 3 hrs. Greek to Restoration.
- 528. **Theatre History II.** 3 hrs. Restoration to present.

530. **Summer Theatre I.** 3 hrs. Prerequisite: Permission of staff. Concentrated applied theatre.

531. **Summer Theatre II.** 3 hrs. Continuation of THE 530.

535. **Advanced Scene Design.** 3 hrs. Prerequisite: THE 306 or permission of instructor.

540. **Ballet Technique.** 3 hrs. Advanced study and enrichment of ballet technique for the dance major. May be repeated for a total of nine (9) hours.

545. **Advanced Stage Lighting.** 3 hrs.

547. **Opera Workshop.** 1 hr. Preparation and performance of opera scenes and full productions from the music theatre repertory.

548. **Opera Workshop.** 1 hrs. Continuation of THE 547.

553. **Jazz Dance for the Dance Major.** 2 hrs. The study and application of the principles of jazz movement. May be repeated twice for a total of six (6) hours.

558. **Dance Technique and Analysis.** 3 hrs. May be repeated for a total of 9 hours.

559. **Musical Theatre Production.** 3 hrs. The study of different forms and styles of musical theatre with special attention to the various elements of production.

560. **Costume Design Studio.** 3 hrs. Projects in designing costumes for plays, opera, and dance. Emphasis placed on costume designs as an element in a total production concept.

561. **Advanced Theatrical Makeup.** 3 hrs. Projects in makeup design and execution. Emphasis placed on three-dimensional makeup techniques for theatre, television, and film.

562. **Dance History I.** 3 hrs. Primitive through the medieval periods.

563. **Dance History II.** 3 hrs. Renaissance to the present.

564. **Methods of Teaching Dance.** 3 hrs. Study and practice of the methodology, principles, and objectives of teaching dance.

565. **Musical Resources for Dance.** 2 hrs.

566. **Dance Lecture and Demonstration.** 3 hrs. Techniques of preparing lecture-demonstrations and tours.

567. **Dance Curriculum and Organization.** 3 hrs. Study of curricula and administrative problems.

568. **Musical Theatre Dance.** 2 hrs.

571. **Performance Internship.** 3 hrs. Professional experience in residence with approved professional organizations.

580. **Directing Children's Theatre.** 3 hrs. Prerequisite: THE 320, THE 420, or permission of the instructor. Techniques of directing, organizing, and administering a children's theatre program.

581. **Repertory Theatre.** 9 hrs. Participation in the analysis and preparation of the performances of three plays in repertory. Daily and nightly involvement (approximately ten hours per day) in theatre workshops (voice, movement, or technical theatre) and in rehearsals for the plays.

590. **Theatre Workshop.** 3 hrs. Designed for the non-theatre major (i.e., English, speech music, etc.) who is responsible for directing school or community drama activities.

601. **Introduction to Graduate Study in Theatre.** 2 hrs. Seminar in methods and materials for research in theatre; introduction to the bibliography of the field; organization and form of thesis/creative project.

602. **Theory and Philosophy of Dance.** 3 hrs.

603. **Graduate Studies in Dance Composition.** 3 hrs. The study of challenges and processes in preparing dances for commercial theatre and concert stage.

606. **Dramatic Theory and Criticism.** 3 hrs. From antiquity to the present.

611. **Seminar: Contemporary Trends in Theatre.** 3 hrs.

612. **Seminar in Theatre Production.** 3 hrs. Theory behind contemporary staging techniques, and research in other advances in staging.

613. **Seminar in Theatre Design and Structure.** 3 hrs. Research in architectural and acoustical design, lighting, seating, color, use, and stage requirements.

614. **Seminar in Acting and Directing.** 3 hrs.

615. **Seminar in Dance, Opera, and Theatre.** 3 hrs.

616. **Seminar in Community and Regional Theatre.** 3 hrs.

620. **Playwriting.** 3 hrs. Prerequisite: Permission of instructor.

640. **Ballet Technique.** 3 hrs. Continuation of ballet technique for the dance major. May be repeated for a total of six (6) hours.

658. **Dance Technique and Analysis.** 3 hrs. Continuation of THE 558. May be repeated for a total of six (6) hours.

681. **Practicum in Acting and Directing.** 1-3 hrs. May be taken for a total of nine (9) hours.

682. **Practicum in Costume and Makeup.** 1-3 hrs. May be taken for a total of nine (9) hours.

683. **Practicum in Scene Design and Technical Theatre.** 1-3 hrs. May be taken for a total of nine (9) hours.

684. **Practicum in Lighting and Sound Engineering.** 1-3 hrs. May be taken for a total of nine (9) hours.

685. **Practicum in Reader's Theatre and Oral Interpretation.** 1-3 hrs. May be taken for a total of nine (9) hours.

686. **Practicum in Creative Dramatics and Children's Theatre.** 1-3 hrs. May be taken for a total of nine (9) hours.

687. **Practicum in Dance and Movement.** 1-3 hrs. May be taken for a total of nine (9) hours.

691. **Research in Theatre.** 1-9 hrs.

692. **Special Problems I, II, III.** 1-3 hrs. each. Investigation into specialized areas of interest within the broad area of theatre.

696. **Practicum in Theatre I, II, III.** 3 hrs. each. THE 696 may be taken three times for a total of nine hours.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

699. **Creative Project.** 1-8 hrs.

747. **Advanced Opera Workshop.** 1 hr. Preparation and performance of opera scenes and full productions from the music theatre repertory.

748. **Advanced Opera Workshop.** 1 hr. Continuation of THE 747.

THERAPY (THY-740)

511. **Seminar in Corrective Therapy.** 1 hr. An introductory seminar for students interested in careers in corrective therapy.

521. **Clinical Experience.** 1-4 hrs. A supervised internship in various habilitation, rehabilitation or neuropsychiatric clinics. May be repeated.

554. **Neurological and Pathological Concepts and Implications in Human Functions.** 3 hrs. A review of the central nervous system and pathology as related to muscular control and disease that limits normal human functioning.

561. **Corrective Therapy and Rehabilitation Medicine.** 2 hrs. An introduction to the basic concepts and considerations necessary for effective functioning in the clinical setting.

562. **Spinal Cord Injuries and Muscle Disorders.** 2 hrs. A review of normal and abnormal functioning of the motor pathways with emphasis on evaluation and rehabilitation of specific motor disorders and spinal cord injuries.

563. **Normal Human Locomotion.** 2 hrs. An indepth analysis of normal human locomotion and its impact on ambulation training, prosthesis gait deviations and blind mobility training.

564. **Cardiovascular and Respiratory Disorders.** 2 hrs. A review of normal and abnormal functioning and rehabilitation programs for cardiovascular and respiratory disorders.

571. **Accelerated Corrective Therapy Rehabilitation Ward Program.** 2 hrs. An introduction to the basic concepts and treatment procedures used in accelerated rehabilitation ward programs.

572. **Dynamics of Psychiatric Group Rehabilitation Programs.** 2 hrs. The complexities in directing neuropsychiatric group activities.

573. **Neuro-Psychiatric Geriatric Training.** 2 hrs. An introduction to the multi-problem areas of communication with motivating and treating the geriatric, neuropsychiatric patient.

574. **Programs for the Severely Disturbed Psychiatric Patient.** 2 hrs. An introduction to the problems of treating the psychiatric patient in a locked ward setting.

597. **Interdisciplinary Seminar in Developmental Disabilities.** 3 hrs. Study of the interdependent contributions of relevant disciplines in training, service, and research.

TOXOLOGY (385)

570. **Toxology.** 3 hrs.

GRADUATE FACULTY

- LUCAS, AUBREY KEITH, President of the University and Professor of Educational Administration and Supervision. B.S., M.A., University of Southern Mississippi; Ph.D., Florida State University.
- ALBERS, LAWRENCE CHARLES, Associate Professor of Radio, Television, and Film. B.G.E., University of Omaha; M.A., doctoral study, University of Southern California.
- ALCORN, JOHN DOUGLAS, Chairman of Department of Counseling Psychology and Counselor Education and Professor of Counseling Psychology and Counselor Education. B.S., M.Ed., Ph.D., East Texas State University.
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¹Leave of absence—1981-1982

²Leave of absence, Fall Semester

³Leave of absence—Spring Semester

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| 31 | | | | | | | | | | | | | | | | | | | | | 31 | | | | | | |

| FEBRUARY | | | | | | | MAY | | | | | | | AUGUST | | | | | | | NOVEMBER | | | | | | | | | | |
|----------|----|----|----|----|----|----|-----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----------|----|----|----|----|----|----|---|---|---|---|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | | | | | 1 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | | | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | | | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | | | | |
| 28 | | | | | | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 31 | | | | | 28 | 29 | 30 | | | | | | | | |
| | | | | | | | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | | |

| MARCH | | | | | | | JUNE | | | | | | | SEPTEMBER | | | | | | | DECEMBER | | | | | | | | |
|-------|----|----|----|----|----|----|------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|---|---|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | | |
| | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 | | | | | | 1 | 2 | 3 | 4 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | |
| 28 | 29 | 30 | 31 | | | | 27 | 28 | 29 | 30 | | | | 26 | 27 | 28 | 29 | 30 | | | 26 | 27 | 28 | 29 | 30 | 31 | | | |

CALENDAR 1983

| JANUARY | | | | | | | APRIL | | | | | | | JULY | | | | | | | OCTOBER | | | | | | |
|---------|----|----|----|----|----|----|-------|----|----|----|----|----|----|------|----|----|----|----|----|----|---------|----|----|----|----|----|----|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S |
| | | | | | | 1 | | | | | | | 1 | 2 | | | | | 1 | 2 | | | | | | 1 | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | | | | | | | | | 31 | | | | | | | 30 | 31 | | | | | |

| FEBRUARY | | | | | | | MAY | | | | | | | AUGUST | | | | | | | NOVEMBER | | | | | | | | | |
|----------|----|----|----|----|----|----|-----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----------|----|----|----|----|----|----|---|---|---|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | 1 | 2 | 3 | 4 | 5 | 6 | | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | | |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | | |
| 27 | 28 | | | | | | 29 | 30 | 31 | | | | | 28 | 29 | 30 | 31 | | | | 27 | 28 | 29 | 30 | | | | | | |

| MARCH | | | | | | | JUNE | | | | | | | SEPTEMBER | | | | | | | DECEMBER | | | | | | | |
|-------|----|----|----|----|----|----|------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|---|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | |
| | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 | | | | | | 1 | 2 | 3 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 27 | 28 | 29 | 30 | 31 | | | 26 | 27 | 28 | 29 | 30 | | | 25 | 26 | 27 | 28 | 29 | 30 | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |

CALENDAR 1984

| JANUARY | | | | | | | APRIL | | | | | | | JULY | | | | | | | OCTOBER | | | | | | |
|---------|----|----|----|----|----|----|-------|----|----|----|----|----|----|------|----|----|----|----|----|----|---------|----|----|----|----|----|----|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 29 | 30 | 31 | | | | | 29 | 30 | | | | | | 29 | 30 | 31 | | | | | 28 | 29 | 30 | 31 | | | |

| FEBRUARY | | | | | | | MAY | | | | | | | AUGUST | | | | | | | NOVEMBER | | | | | | | |
|----------|----|----|----|----|----|----|-----|----|----|----|----|----|----|--------|----|----|----|----|----|----|----------|----|----|----|----|----|----|---|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | |
| | | | 1 | 2 | 3 | 4 | | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 | | | | | | 1 | 2 | 3 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 26 | 27 | 28 | 29 | | | | 27 | 28 | 29 | 30 | 31 | | | 26 | 27 | 28 | 29 | 30 | 31 | | 25 | 26 | 27 | 28 | 29 | 30 | | |

| MARCH | | | | | | | JUNE | | | | | | | SEPTEMBER | | | | | | | DECEMBER | | | | | | |
|-------|----|----|----|----|----|----|------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S |
| | | | | | | 1 | | | | | | | 1 | | | | | | | 1 | | | | | | | 1 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | | | | | | | | | | | | | | 30 | | | | | | | | | | | | | |

**University
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Mississippi**